

Thlaosoma dubium.

- Fig. 25. Relative position of eyes.
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T. distinctum.

- Fig. 36. View of Spider, from above.
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Catalogue of the Homopterous Insects collected in the Indian Archipelago by Mr. A. R. WALLAOE, with descriptions of New Species. By FRANCIS WALKER, Esq., F.L.S.

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Fam. CICADELLINA, *Burm.*Tribe LEVIPEDES, *Amyot et Serv.*Subtribe CERCOPIDES, *Amyot et Serv.*Gen. PHILAGRA, *Stål.*

287. PHILAGRA DOUGLASI, *Stål, Trans. Ent. Soc. Lond.* 3rd ser. i. 593.

Hab. Batchian.

288. PHILAGRA SCOTTI, *Stål, Trans. Ent. Soc. Lond.* 3rd ser. i. 594.

Hab. Batchian.

Gen. CERCOPIIS, *Fabr.*

289. CERCOPIIS SPECTABILIS, *Burm. Nov. Act. Phys. Med. Nat. Cur.* xvi. *Suppl.* 304, pl. 41. f. 8.

Hab. Sumatra; inhabits also the Philippine Isles.

290. CERCOPIIS PLANA, *Walk. Cat. Hom.* iii. 653.

Hab. Penang; inhabits also Java.

291. CERCOPIIS UNDULIFERA. *Fam.* Nigra, capite vitta incisâ tes-

tacea vittaque anteriore picea, thorace margine undulato vittaque antica puncta duo nigra includente testaceis, segmentis ventralibus testaceo fasciatis, alis anticis margine apicali pallide luteo lituras nigras includente.

Female. Black. Head and thorax transversely rugulose. Head with an excavated testaceous stripe, which is lanceolate on the front, where it joins a piceous stripe, the latter extending to the mouth. Thorax with an undulating testaceous border; fore part with a testaceous stripe, which contains a black point on each side and joins the stripe, and widens thence to its hind border, where it is abruptly dilated. Abdomen beneath with a narrow widely interrupted testaceous band on the hind border of each segment. Oviduct ferruginous. Fore wings about the tips with a pale luteous border, which contains some irregular black marks. Length of the body 9 lines, of the wings 27 lines.

Hab. New Guinea.

292. *CERCOPIS TETRASPILA.* *Mas.* Nigra, capite pallide rufo fascia nigra maculam pallide rufam includente, thoracis margine scutellique macula pallide rufis, pectore maculis duabus ventreeque maculis lateralibus rufis, alis anticis rufo quadrimaculatis. *Var. β .* Capitis thoracisque lituris pallide testaceis.

Male. Black. Head pale red, except between the eyes, where there is a pale red spot. Thorax on each side with a narrow pale red border. Scutellum with a pale red spot. Pectus with a red spot on each side. Abdomen beneath with a row of red spots on each side. Fore wings with four red spots near the base, forming a curved band. *Var. β .* Spot on the vertex, side of the thorax, and spot on the scutellum pale testaceous. Thorax with a pale testaceous spot on each side in front. Length of the body 8 lines, of the wings 21 lines.

Hab. Batchian; Gilolo.

293. *CERCOPIS RUFIMARGO.* *Mas.* Nigra, capite rufo vertice piceo, thoracis margine rufo, pedibus rufis coxis nigris, alis posticis nigricantibus.

Male. Black. Head red; vertex piceous. Thorax with a red border. Legs red; coxæ black. Abdomen dark red at the tip beneath. Hind wings blackish. Length of the body 9 lines, of the wings 24 lines.

Hab. Celebes.

The red margin of the thorax distinguishes this species from *C. nigripennis*, *C. costalis*, and *C. viridans*.

294. *CERCOPIS INTERMEDIA.* *Mas.* Nigra, thoracis margine pectoreque rufis, abdomine subtus basi apiceque rufo, pedibus rufis tibiis anticis tarsisque nigris, alis anticis macula magna fasciaque infirmi rufis, alis posticis nigricanti-fuscis.

Male. Black. Rostrum red. Thorax with a red border. Pectus mostly red. Abdomen red at the base and at the tip beneath. Legs red; tarsi and fore tibiæ black. Fore wings with a large red spot in the disk near the base, and with a red band adjoining the reticulated part; this band is dilated and angular on each side in the middle, and does not quite extend to the costa nor to the hind border. Hind wings blackish-brown. Length of the body 6 lines, of the wings 18 lines.

Hab. Batchian.

The narrower thorax and the red marks on the fore wings distinguish this species from *C. rufimargo*.

295. *CERCOPIS UNIFASCIA.* *Fœm.* Nigra, capite antico obscure rufescente, genibus tarsisque rufis, alis anticis fascia media denticulata ochracea.

Female. Black. Head dark reddish in front. Oviduct picceous. Knees and tarsi red. Fore wings with an ochraceous denticulated middle band. Length of the body 9 lines, of the wings 24 lines.

Hab. New Guinea.

296. *CERCOPIS DECISA.* *Fœm.* Picea, pedibus pallide luteis, femoribus posterioribus coxisque piceis, alis anticis fascia lutea lata subobliqua.

Female. Picceous, Legs pale luteous; coxæ and posterior femora picceous. Fore wings with a broad slightly oblique luteous band near the reticulated part, which is black. Length of the body $5\frac{1}{2}$ lines, of the wings 21 lines.

Hab. Morty.

The colour of the legs sufficiently distinguishes this species from *C. unifascia*.

297. *CERCOPIS CONVEXA.* *Mas.* Nigra, fronte testaceo bivittato, pedibus pallide testaceis, femoribus posterioribus coxisque nigris, alis anticis vitta media pallide testacea costa ferruginea, alis posticis nigricanti-fuscis.

Male. Black. Head with two testaceous stripes on the front. Abdomen with testaceous apical appendages. Legs pale testaceous; coxæ and posterior femora black. Fore wings with a pale testaceous slightly oblique middle stripe, which is broadest at each end; costa ferruginous. Hind wings blackish brown. Length of the body 8 lines, of the wings 20 lines.

Hab. New Guinea.

The stripes on the front, and the colour and shape of the band on the fore wings, are the only characters which distinguish this species from the preceding one.

298. *CERCOPIS MACULIFASCIA*. *Mas.* Nigra, fronte thoracisque margine obscure rufescentibus, pedibus saturate rufis, femoribus posterioribus coxisque nigris, alis anticis macula basali elongata fasciaque maculari ochraceis, alis posticis nigricantibus.

Male. Black. Front and apical appendages of the abdomen dark reddish. Thorax with a dark reddish border. Legs deep red; coxæ and posterior femora black. Fore wings with an elongated ochraceous spot at the base of the hind border, and with an ochraceous middle band composed of six or seven elongated spots. Hind wings blackish. Length of the body 7 lines, of the wings 18 lines.

Hab. Morty.

299. *CERCOPIS DIVISA*. *Mas.* Nigra, abdomine apice rufo, pedibus pallide luteis, femoribus posterioribus coxisque nigris, alis anticis fascia basali strigulari pallide lutea, alis posticis nigricantibus basi luridis.

Male. Black, with cinereous pubescence. Abdomen red at the tip. Legs pale luteous; coxæ and posterior femora black. Fore wings with a basal pale luteous band composed of five streaks, of which the streak next the hind border is broader than the others and is the only one which extends to the base; reticulated part dark brown. Hind wings blackish, lurid at the base. Length of the body 8 lines, of the wings 21 lines.

Fæm. Picea, capite antico rufescente, pedibus luteis, femoribus posterioribus coxisque piceis, alis anticis striga basali brevi lata maculaque subcostali luteis.

Female. Picuous. Head reddish in front. Legs luteous; coxæ and posterior femora piceous. Fore wings with a short broad luteous streak along the base of the hind border, and with a small elongated subcostal luteous spot near the base. Length of the body $7\frac{1}{2}$ lines, of the wings 18 lines.

Hab. New Guinea.

300. *CERCOPIS VIRIDANS*, *Guér. Voy. Bélanger, Ind. Orient.* pl. 3. f. 7.

Var. β. *Mas et Fæm.* Æneo-nigra, tibiis tarsisque obscure rufescentibus. *Var. γ.* Alis anticis striga basali rufescente. *Var. δ.* Alis anticis macula subcostali rufa. *Var. ε.* Nigra, abdomine segmentorum marginibus posticis apiceque rufis, femoribus anticis tibiis tarsisque posticis rufis, alis anticis striga basali maculaque subcostali rufis costa ferruginea.

Var. β. Male and Female. Æneous black. Tibiæ and tarsi dark reddish. *Var. γ.* Fore wings with a reddish streak along the hind border at the base. *Var. δ.* Like *var. γ*, but fore wings at half the length, with a red subcostal spot. *Var. ε.* Black. Abdomen red at the tip and along the hind borders of the segment. Fore fe-

mora, hind tibiæ, and hind tarsi red. Fore wings with a red streak along the hind border at the base, and with a subcostal red spot near the base; costa ferruginous. Length of the body 7-8 lines, of the wings 18-20 lines.

Hab. Morty; New Guinea; Sumatra.

301. *CERCOPIS INEXACTA*. *Mas.* Nigra, facie rufa, pedibus rufis, tarsis anterioribus apice nigris, tarsis posticis nigris basi rufis, alis anticis maculis quatuor rufis, alis posticis nigricantibus.

Male. Black, shining. Face red. Legs red; anterior tarsi with black tips; hind tarsi black, except at the base. Fore wings with four red spots; two near the base, much larger than the other two, which form a band at two-thirds of the length. Hind wings blackish. Length of the body 8 lines, of the wings 21 lines.

Hab. Tondano, Celebes.

Fæm. Nigra, capite thorace pectorisque lateribus obscure rufis, vertice thoracis macula antica magna transversa scutelloque nigricantibus, pedibus rufis, coxis tarsisque nigricantibus, alis anticis rufo quadrimaculatis, alis posticis fuscis hyalinis.

Female. Black. Head, thorax and sides of the pectus dark red. Vertex, a large transverse spot on the fore border of the thorax, and scutellum blackish. Legs bright red; coxæ and tarsi blackish. Fore wings with four bright red spots, which form two bands, one before the middle, the other beyond the middle. Hind wings brown, hyaline. Length of the body 9 lines, of the wings 20 lines.

Hab. Celebes.

302. *CERCOPIS BASISTRIGA*. *Mas.* Picea, capite pallide luteo vertice piceo, thoracis lateribus anticis luteis, pedibus pallide luteis, femoribus posterioribus coxisque piceis, alis anticis strigis duabus fasciaque media subdentata luteis. *Var. β.* Alis anticis fascia maculari.

Male. Piceous. Head, except the vertex, pale luteous. Sides of the thorax luteous in front of the angle. Legs pale luteous; coxæ and posterior femora piceous. Fore wings with a luteous streak along one-third of the length of the hind border, with a short luteous streak in the disk near the base, and with a luteous slightly dentate middle band. *Var. β.* Band of the fore wings composed of three spots. Length of the body $7\frac{1}{2}$ lines, of the wings 19 lines.

Hab. Morty.

303. *CERCOPIS BIANGULATA*. *Mas et Fæm.* Rufa, thoracis maculis duabus scutelloque nigris, pectore nigro rufo-fasciato, abdomine nigro segmentis ventralibus rufo marginatis, femoribus posterioribus nigris, alis anticis nigris strigis tribus longitudinalibus fasciisque

duabus angustis rufis, alis posticis cinereis fusco marginatis. Var. β . Scutello rufo.

Male and Female. Red. Thorax with a black spot on each of the two impressions in front. Scutellum black. Pectus black, with a red band in front. Abdomen black; hind borders of the segments beneath and tip red. Posterior femora black. Fore wings black, with three red longitudinal streaks and with two narrow red bands; first streak proceeding from the base of the costa; second near the base; third proceeding from the base of the hind border, joining the first band at one-third of the length of the wing; second band at two-thirds of the length. Hind wings cinereous, diffusely brown-bordered. Var. β . Scutellum red. Length of the body 9 lines, of the wings 22 lines.

Hab. Tondano; Celebes.

304. *CERCOPIS SULCATA.* *Fæm.* Atra, capite thoraceque nigro-purpureis, alis anticis fascia latissima rufa incisa maculas duas nigras includente, alis posticis nigricantibus.

Female. Deep black. Head, thorax, and pectus blackish purple. Fore wings with a very broad red band, which occupies more than half the length from the base; it is excavated by two black streaks proceeding from the base, and by an exterior black streak on the hind border, and it contains two black spots; first spot elongated, subcostal; second connected with the black part. Hind wings blackish. Length of the body $7\frac{1}{2}$ lines, of the wings 19 lines.

Hab. Tondano; Celebes.

305. *CERCOPIS IMPRESSA.* *Mas.* Pallide rufa, capite subtus scutello pectore abdomine pedibusque piceis, alis anticis vitta lata informi striga fascia lata subinterrupta spatiorum reticulato nigris, alis posticis fuscis.

Male. Pale red. Head beneath, scutellum, pectus, abdomen, and legs piceous. Thorax with the impression on each side in front partly piceous. Fore wings with a broad irregular partly costal black stripe proceeding from the base to the reticulated part, which is also black; a black streak proceeding from the base nearer the hind border; a broad, irregular, and slightly interrupted black band near the reticulated part; hind wings brown. Length of the body $7\frac{1}{2}$ lines, of the wings 19 lines.

Hab. Flores.

306. *CERCOPIS NEXA.* *Mas.* Pallide rufa, scutello pectore abdomine coxis femoribusque nigris, alis anticis maculis quatuor spatiorum reticulato nigris, margine exteriori alisque posticis fuscis.

Male. Pale red. Scutellum, pectus, abdomen, coxæ, and femora black. Abdomen red at the tip beneath. Fore wings black on the reticulated part, and with four black spots; first and second spots in the disk near the base, the hind one very narrow; third and fourth con-

nected, larger than the others; exterior border and hind wings brown. Length of the body 8 lines, of the wings 20 lines.

Hab. Flores.

307. *CERCOPIS BREVISTRIGA*. *Fœm.* Nigra, thorace rufo macula antica transversa quadrata margineque postico nigris, coxis femoribusque rufis, alis anticis rufis apice margine postico strigis tribus maculisque tribus nigris, alis posticis nigricanti-fuscis.

Female. Black. Thorax red, black along the hind border, and with a transverse quadrate black spot on the fore border. Coxæ and femora red. Fore wings red, black at the base and along the hind border and about the tips, and along the adjoining part of the costa; two black streaks proceeding from the base, one extending to the hind border, the other joining an oblique elongated black spot in the disk; two longitudinally elongated black spots in the middle of the disk, and an exterior irregular black spot; a black costal antemedial streak. Hind wings blackish brown. Length of the body 6-6½ lines, of the wings 16-17 lines.

Hab. Tondano; Celebes.

Much like *C. perspicillaris*; but the head is wholly black, the tips of the fore wings are black, and their markings are very different.

308. *CERCOPIS SEMILURIDA*. *Mas.* Rufa, scutello luteo, pectore abdomine femoribus tarsisque posticis coxisque nigris, femoribus intermediis piceis apice rufis, tarsi anterioribus piceis, alis anticis pallide luteis fascia media lata maculas duas pallide luteas includente strigisque duabus fuscis spatio exteriore lurido costa basi rufescente, alis posticis fuscis. *Var. β.* Rufa, alis anticis nigricantibus fascia informi ochracea spatii costali basi rufo maculis duabus postmediis magnis pallide flavis spatio exteriore lurido, alis posticis fuscis. *Var. γ.* Alis anticis fuscescentibus fascia flava. *Var. δ.* Alis anticis luridis fascia pallide flava.

Male. Bright red. Scutellum luteous. Pectus and abdomen black. Coxæ, hind femora, and hind tarsi black; middle femora piceous, red towards the tips; anterior tarsi piceous. Fore wings pale luteous, with a broad brown middle band, which contains two pale luteous spots; space beyond the band lurid; costa reddish at the base, near which there are broad brown streaks. Hind wings brown. *Var. β.* Fore wings blackish; an irregular ochraceous band near the base, composed of two large nearly connected spots; costal space red towards the base; two large pale yellow spots, forming a band beyond the middle; space beyond the spots lurid brown. *Var. γ.* Fore wings brownish; the band near the base yellow; the spot on the hind border extending to the base of the wing. *Var. δ.* Fore wings lurid, with a pale yellow band. Length of the body 7-8 lines, of the wings 18-20 lines.

Hab. Batchian ; Gilolo ; Kaisaa ; Morty ; Ternate.

Much like *C. Theora*, from which it may be distinguished by the membrane of the fore wings, which is wholly lurid.

309. *CERCOPIS RUBRIFERA*. *Fœm.* Picea, capite rufo vertice lateribusque piceis, scutello apice rufescente, abdomine rufo basi ventreque nigris, pedibus rufis, femoribus posterioribus coxisque piceis, alis anticis fasciis duabus rufis piceo venosis postice connexis, alis posticis luride fuscis cinereo strigatis.

Female. Piceous. Head red ; vertex and sides piceous. Rostrum red. Scutellum reddish at the tip. Abdomen bright red, black at the base ; underside black, excepting the tip and the hind borders of the segments on each side. Legs bright red ; coxæ and posterior femora piceous. Fore wings with two red bands, which are intersected by the piceous veins ; first band near the base, to which it extends on the hind border, where it also joins the second. Hind wings lurid brown, with cinereous streaks in most of the areolets ; base red. Length of the body 8 lines, of the wings 24 lines.

Hab. Aru.

It much resembles *C. theora* ; but the costa of the fore wings is more convex, their markings are different, and their tips are not lurid.

310. *CERCOPIS DORSALIS*. *Fœm.* Lutea, thorace dilatato, pectore femoribus posticis basi coxisque nigris, alis anticis fasciis duabus macularibus nigris, alis posticis luride hyalinis.

Female. Luteous. Pectus, coxæ, and hind femora towards the base black. Fore wings with two black bands ; one, near the base, composed of two spots ; the other, in the middle, composed of three spots. Hind wings hyaline, with a lurid tinge. Length of the body 8 lines, of the wings 20 lines.

Hab. Sumatra.

311. *CERCOPIS NASALIS*. *Fœm.* Nigra, capite luteo vertice faciei que lateribus nigris, abdomine luteo basi ventreque nigris, pedibus luteis, femoribus posterioribus coxisque nigris, alis anticis fasciis duabus luteis, 1^a basali lata interrupta, 2^a incisa, alis posticis nigricantifuscis basi luteis.

Female. Black. Head luteous, except the vertex and each side of the face. Thorax dilated. Abdomen luteous, black beneath and at the base above. Legs luteous ; coxæ and posterior femora black. Fore wings with two luteous bands ; first band basal, broad, irregular, composed of three broad longitudinal streaks ; second excavated on the inner side, almost connected with the first near the hind border. Hind wings blackish brown, luteous at the base. Length of the body 7½ lines, of the wings 19 lines.

Hab. Aru.

312. *CERCOPIS TOMENTOSA*. *Mas et Fæm.* Nigra, capite fascia arcuata testacea, thorace lateribus anticis testaceis maculisque duabus lateralibus luteis, scutello maculis duabus luteis, alis anticis luteo octomaculatis, alis posticis nigricanti-fuscis. Var. β . Thoracea lisque anticis testaceo pallido maculatis.

Male and Female. Black, with cinereous tomentum. Head with a testaceous arched band in front of the eyes. Thorax with testaceous sides in front of the angle, and with a luteous spot on each side. Scutellum with a luteous spot on each side. Fore wings with eight luteous spots, one at the base, three costal or subcostal, three near the hind border, and one in the disk near the tip. Hind wings blackish brown. Var. β . Spots on the thorax, on the scutellum, and on the fore wings pale testaceous, those on the fore wings very small. Length of the body 9 lines, of the wings 18 lines.

Hab. Sumatra.

Most allied to *C. dubitabilis*, but very different from that species in the markings of the fore wings.

313. *CERCOPIS VARIA*. *Mas.* Nigra, capite rufo subtus nigro, thorace rufo vittis duabus nigris latis abbreviatis femoribus dimidio basali rufis, alis anticis vittis duabus fascia antemedia fascia postmedia angulosa maculaque subapicali rufis, alis posticis nigricanti-cinereis.

Male. Black. Head red, black beneath and about the ocelli. Thorax red, with two broad black stripes, which are narrower in front, and do not extend to the fore border. Femora red for half the length from the base. Fore wings with two red stripes proceeding from the base, and joining an antemedial red band; first stripe costal, containing two black dots; second on the hind border; a zigzag red band at three-fourths of the length, and a subapical red spot. Hind wings blackish cinereous. Length of the body 6 lines, of the wings 16 lines.

Hab. Celebes; Tondano.

Much resembles *C. dorsalis*, but may be distinguished by the markings of the head and of the fore wings.

314. *CERCOPIS TETRAGONA*. *Mas et Fæm.* Nigra, thorace rufo macula antica nigra magna transversa quadrata, alis anticis dimidio basali rufo gutta fasciaque maculari nigris, alis posticis nigricantibus.

Male and Female. Black. Thorax red, with a large quadrate transverse black spot on the fore border. Fore wings red for rather more than half the length from the base, with a black dot near the base, and with a black band in the middle of the red part; this band is composed of three spots, of which two are connected, and the third is near the hind border. Hind wings blackish; veins black, red at the base. Length of the body 6 lines, of the wings 16-17 lines.

Hab. Aru; New Guinea; Waigiou.

315. *CERCOPIS LATERALIS*. *Fœm.* Nigra, thoracis lateribus anticis scutelloque rufis, abdomine basi luteo, alis anticis fasciis duabus rufis connexis, 1^a strigam nigram includente, alis posticis nigricanti-fuscis.

Female. Black. Sides of the thorax red in front of the angle. Scutellum red. Abdomen luteous at the base. Fore wings with two red bands; one basal, containing a black streak, connected by a red line with the second, which is antemedial. Hind wings blackish brown; veins black, red at the base. Length of the body 6 lines, of the wings 15 lines.

Hab. Morty.

316. *CERCOPIS SEQUENS*. *Mas.* Nigra, capite thoracisque lateribus pallide rufis, femoribus anticis tibiisque anterioribus testaceis, alis anticis striga costali fasciaque angusta pallide rufis, alis posticis nigricanti-fuscis.

Male. Black. Head pale red, piceous about the ocelli. Thorax with a narrow pale red border on each side. Fore femora and anterior tibiæ testaceous. Fore wings with a pale red streak along the basal part of the costa, and with a narrow pale red middle band. Hind wings blackish brown; veins black, red at the base. Length of the body 6 lines, of the wings 16 lines.

Hab. New Guinea.

The red border of the thorax, and the want of a streak in the disk near the base of the fore wing distinguish this species from *C. basistriga*.

317. *CERCOPIS SEMICINCTA*. *Mas.* Nigra, thorace fascia postica rufa, pectore anteo rufescente, abdomine vitta ventrali rufa, pedibus rufis, tibiis anterioribus tarsisque piceis, alis anticis fasciis duabus luteis angustis, alis posticis nigricanti-fuscis.

Male. Black. Rostrum red. Thorax with a red band along the hind border from the angle on each side. Pectus reddish in front. Abdomen with a red stripe beneath. Legs red; tarsi and anterior tibiæ piceous. Fore wings with two narrow luteous bands, one at one-third of the length, the other at two-thirds. Hind wings blackish brown; veins black, red at the base. Length of the body 5 lines, of the wings 16 lines.

Hab. Celebes.

318. *CERCOPIS LATICINCTA*. *Fœm.* Atra, thoracis lateribus latissime ochraceo rufis, coxis femoribusque rufis, alis anticis fasciis duabus latis ochraceo-rufis, alis posticis nigricanti-fuscis.

Female. Deep black. Thorax very broadly bordered with orange red, except on the fore border. Coxæ and femora red. Fore wings with two broad orange-red bands, one near the base, the other beyond the

middle. Hind wings blackish brown; veins black. Length of the body 6 lines, of the wings 15 lines.

Hab. Batchian.

The broad bands of the fore wings sufficiently distinguish this species from *C. semicineta*.

319. *CERCOPIS ANGULIFERA*. *Mas et Fœm.* Nigra, facie thoracisque margine rufis, pectore rufo maculis duabus nigricantibus, coxis femoribus tibiisque posticis rufis, alis anticis fasciis duabus rufis 1^a maculari, alis posticis nigricantibus.

Male and Female. Black. Face and rostrum red. Thorax bordered with red except along the fore side; this band is very narrow or quite wanting in front of the angle. Pectus red, with a blackish spot on each side. Coxæ, femora, and hind tibiæ red. Fore wings with two red bands; first band near the base, composed of a quadrangular spot and a small dot, the latter near the hind border; second band close to the reticulated part, narrower towards the hind border. Hind wings blackish. Length of the body 4½ lines, of the wings 12–14 lines.

Hab. Batchian.

320. *CERCOPIS FLEXIFASCIA*. *Fœm.* Nigra, thorace ochraceo macula antica magna transversa quadrata fasciaque postica lata nigris, alis anticis fasciis tribus rufis, 1^a maculari, 2^a undulata interrupta strigam emittente, 3^a flexa, alis posticis nigricantibus.

Female. Black. Thorax ochraceous, with a large quadrate transverse black spot on the fore border and with a broad black band on the hind border. Fore wings with three red bands; first band composed of two basal spots; second undulating and interrupted, emitting a streak towards the third, which is bent outward. Hind wings blackish. Length of the body 5 lines, of the wings 13 lines.

Hab. Sumatra.

Much like *C. undata*, but the band on the thorax is much broader and the exterior band on the fore wings is entire.

321. *CERCOPIS CONCISA*. *Fœm.* Nigra, capite pectore abdomine pedibusque rufis, vertice nigro, alis anticis fasciis duabus latis ochraceis, fascia 1^a antemedia, 2^a postmedia postice contracta, alis posticis nigricantibus.

Female. Black. Head except the vertex, pectus, abdomen, and legs bright red. Tarsi blackish. Fore wings with two broad ochraceous bands; first band near the base; second close to the reticulated part, narrower towards the hind border. Hind wings blackish. Length of the body 5 lines, of the wings 13 lines.

Hab. Tondano; Celebes.

The wholly black head, the red scutellum, and the basal band of the fore wings distinguish *C. heros* from this species. *C. abdominalis* (Cat. Hom. iii. p. 654) is a synonym of *C. heros*.

322. *CERCOPIS SUBAPICALIS*. *Fam.* Nigra, capite nigro-cyaneo, thorace ochraceo macula antica transversa quadrata nigro-cyanea fascia postica nigro-purpurea, alis anticis striga obliqua clavata punctoque postico rufis, alis posticis nigricantibus. *Var. β.* Capite thoraceque nigro-purpureis.

Female. Black. Head blackish blue. Thorax ochraceous, with a large transverse quadrate blackish blue spot on the fore border and with a broad blackish purple band on the hind border. Fore wings with a red point on the hind border and with a clavate oblique red streak proceeding from the costa to the disk, both adjoining the reticulated part. Hind wings blackish. *Var. β.* Head and thorax blackish purple. Length of the body $4\frac{1}{2}$ –5 lines, of the wings 12 lines.

Hab. Sumatra.

323. *CERCOPIS LITURATA*. *Mas et Fam.* Nigra, capite scutelloque ferrugineis, thorace ochraceo plaga antica ferruginea, pedibus rufis, alis anticis spatio basali maculas tres nigras includente striga obliqua fasciaque flexa ochraceis, alis posticis nigricanti-cinereis.

Male and Female. Black. Head and scutellum ferruginous. Thorax bright ochraceous, with a ferruginous patch on the fore border. Legs dark red. Fore wings ochraceous for one-third of the length from the base; this hue contains three black spots and emits an oblique ochraceous streak near the hind border to an outward-bent ochraceous band, which adjoins the reticulated part. Hind wings blackish cinereous. Length of the body 4– $4\frac{1}{2}$ lines, of the wings 12 lines.

Hab. Flores.

It has most resemblance to *C. perspicillaris* and to *C. xanthomelæna*; but the fore wings have a postmedial isolated red band, and their tips are black.

324. *CERCOPIS LACERATA*. *Mas.* Nigra, thoracis lateribus margineque postico rufis, alis anticis striga basali furcata fascisque duabus angulatis rufis, fascia 1^a brevi, alis posticis nigricantibus.

Male. Black. Sides and hind border of the thorax red. Fore wings with a red forked basal streak and with two acutely angular red bands; both forks of the streak extend to the first band, which is abbreviated, and the hind fork extends thence to the second band on the hind border. Hind wings blackish. Length of the body 4 lines, of the wings 10 lines.

Hab. Timor.

The zigzag bands of the fore wings distinguish it from *C. costalis*, of which species *C. hilaris* may be a variety.

325. *CERCOPIS OBTUSA*. *Mas.* Nigra, alis anticis macula media rufa venis luteis basi luteo marginatis, alis posticis nigricantibus.

Male. Black. Fore wings with a red spot in the disk adjoining the reticulated part; veins pale luteous and bordered with the same hue at the base of the costa. Hind wings blackish. Length of the body $4\frac{1}{2}$ lines, of the wings 10 lines.

Hab. Timor.

The black and comparatively narrow thorax and the shorter fore wings distinguish this species from *C. subapicalis*.

326. *CERCOPIS PUNCTIFASCIA.* *Fem.* Pallide lutea, vertice macula antica transversa fasciaque postica nigricantibus, fronte macula flava strigisque lateralibus nigris, facie nigro bimaculata, thorace fascia punctisque sex nigricantibus, abdomine nigro, alis anticis nigris quinquefasciatis, fascia 1^a brevi e strigis luteis connexis, 2^a 3^aque angulosis pallide rufis, 4^a e litura ramosa pallide rufa annuloque interrupto pallide testaceo, 5^a arcuata pallide lutea, alis posticis cincreis.

Female. Pale luteous, densely pubescent. Vertex with a blackish band on the hind border, and with a transverse blackish spot in front; front with transverse ridges, which are interrupted on the summit by a smooth pale yellow spot, on each side of which there are four short black streaks; two short exterior stripes of transverse black streaks; a black spot on each side of the face. Rostrum with a blackish tip. Thorax with a blackish band, in front of which there is a transverse line of six blackish points. Abdomen above and oviduct black. Tarsi with black tips. Fore wings black, with five bands; first band short, composed of connected pale luteous streaks near the base; second and third pale red, zigzag; fourth very irregular, composed of a ramose pale red mark, and of an incomplete pale testaceous ringlet on the hind border; fifth pale testaceous, curved, very near the exterior border, joining the ringlet. Hind wings cinereous; veins black. Length of the body 4 lines, of the wings 9 lines.

Hab. Batchian.

Genus TRIECPHORA, *Amyot et Serv.*

Sect. N.

Mas. *Corpus* breve, latum, crassum. *Caput* parvum; vertex transversus, sulcis duobus longitudinalibus; frons et facies sat longæ, marginibus carinatis; frons obliqua; facies retracta. *Thorax* pubescens, sulco antico transverso, lateribus rotundatis; scutellum parvum. *Pedes* breves, robusti, pubescentes; tibiæ non spinosæ. *Alæ* anticæ latæ, coriaceæ, apice rotundatæ, costa basi convexa.

Male. Body short, broad, stout. Head less than half the breadth of the thorax; vertex thrice as broad as long, with two longi-

tudinal furrows; front and face longer than broad, with very prominent borders; front extending obliquely beyond the vertex; face retracted. Eyes prominent, rather small. Thorax pubescent, twice as broad as long, rounded on each side, with a transverse suture near the fore border, and with a large shallow impression on each side in front. Scutellum small. Legs short, stout, pubescent; tibiæ without spines. Wings broad, rounded at the tips. Fore wings coriaceous; costa much rounded at the base. Hind wings hyaline, with few veins.

327. *TRIECPHORA ANTICA*. *Mas.* Lutea, abdomine rufo basi pallide luteo, tibiis anticis supra nigris, alis anticis nigris basi luteis, alis posticis fusciscenti-cinereis.

Male. Luteous. Abdomen red, pale luteous towards the base. Fore tibiæ black above; unguis black. Fore wings black, luteous at the base. Hind wings brownish cinereous; veins black. Length of the body 2 lines, of the wings 7 lines.

Hab. Mysol.

328. *TRIECPHORA RUFÀ*. *Mas.* Fulva, thorace non carinato, pectore abdomine pedibusque pallide luteis, abdomine dorso piceo fascia ventrali lata rufescente, alis anticis basi fulvis fascia subapicali guttulari margineque postico nigris, alis posticis cinereis.

Male. Tawny. Keel of the thorax obsolete. Pectus, abdomen and legs pale luteous. Abdomen piceous above; underside with a broad reddish band. Fore wings bright red, tawny at the base; a subapical band of six black dots; hind border black. Hind wings cinereous; veins brown, pale at the base. Length of the body 3 lines, of the wings 8 lines.

Hab. New Guinea.

Genus *AUFIDUS*, *Stål.*

Mas. Corpus robustum. *Caput* thorace multo angustius; vertex transverse sulcatus, antice rotundatus; frons convexa, late sulcata, transverse striata; facies carinata. *Scutum* punctatum. *Scutellum* parvum. *Abdomen* breve. *Pedes* longiusculi, sat graciles. *Alæ* anticæ abdominis apicem longissime superantes, dimidio apicali reticulato.

Male. Body stout. Head much narrower than the thorax; vertex with a transverse furrow, rounded on the fore border; front prominent, with a very broad punctured furrow, transversely striated on each side; face keeled. Scutum punctured, impressed on each side in front; scutellum rather small. Abdomen short. Legs rather long and slender. Fore wings ex-

tending very far beyond the abdomen, reticulated for nearly half the length from the tips.

329. *AUFIDUS TRIFASCIATUS*, *Stål. Trans. Ent. Soc. Lond.* 3rd. ser. i. 594.

Hab. New Guinea.

330. *AUFIDUS BIPARS*. *Mas.* Rufus, subtus luteus, capite supra scutoque nigris, pectore piceo-bimaculato, pedibus luteis tibiis anticis supra tarsisque anticis piceis, alis anticis strigis quatuor lineaque exteriori transversa ferrugineis spatio reticulato piceo venis rufis, alis posticis cinereo-hyalinis.

Male. Red, luteous beneath. Head above and scutum black. Scutum with gilded pubescence. Pectus with a piceous spot on each side. Legs luteous; fore tibiæ above and fore tarsi piceous. Fore wings with four ferruginous streaks, and with an exterior transverse ferruginous line; reticulated part piceous, excepting the veins. Hind wings cinereous, hyaline; veins black. Length of the body 3 lines, of the wings 10 lines.

Hab. Tondano; Celebes.

331. *AUFIDUS PARTITUS*. Rufus, capite supra scutoque nigris, femoribus anticis dimidio tibiisque anterioribus nigris, alis anticis spatio reticulato piceo venis rufis, alis posticis hyalinis.

Red. Head above and scutum black. Scutum with gilded pubescence. Fore femora for more than half the length from the tips, anterior tibiæ, and anterior tarsi black. Fore wings with the reticulated part piceous, excepting the veins. Hind wings hyaline; veins black. Length of the body 3 lines, of the wings 10 lines. It is narrower than *bipars*; the piceous line that borders the reticulated part is more curved, and the transverse veins are less numerous.

Hab. Menado, Celebes.

332. *AUFIDUS TRIPARS*. *Mas.* Luteus, robustus, vertice maculis duabus anticis fasciaque postica nigris, fronte sulcata nigro bimaculata, scuto scutelloque nigro bifasciatis, abdomine maculis duabus nigris subapicalibus, tibiis anticis supra tarsisque anterioribus nigris, alis cinereis hyalinis, alis anticis apices versus nigricantibus plaga basali lutea nigro marginata.

Male. Luteous, stout. Head a little narrower than the thorax; vertex very much broader than long, rounded in front, with a black band on the hind border, and with two transverse black spots on the fore border; front convex, with a black dot on each side by the eye, and with a broad shallow furrow. Antennæ black. Scutum with two black bands, one near the fore border, the other on the hind border; scutellum with two black bands, one on the fore border. Abdomen with a

black spot on each side near the tip. Legs stout; fore tibiæ above, anterior tarsi and tips of hind tarsi black. Wings cinereous, hyaline; veins black. Fore wings luteous towards the base, blackish towards the tips, the outline of the luteous part bordered with black; veins very stout. Length of the body 3 lines, of the wings 8 lines.

Hab. Morty; New Guinea.

333. *AUFIDUS HILARIS*. Luteus, vertice longo nigro-fasciato, scuto nigro fascia antica lata lutea, scutello nigro-biguttato, abdomine maculis lateralibus nigris, alis anticis fuscis spatio basali costæque his triente nigris gutta basali maculaque antemedia luteis costalibus, alis posticis nigricantibus.

Luteous. Head narrower than the thorax; vertex nearly twice as long as broad, somewhat concave, rounded in front, with a black band on the hind border; front with a broad furrow and with transverse striæ. Antennæ black, luteous at the base. Scutum black, with a broad luteous band on the fore border. Abdomen with black spots on each side. Scutellum with a black dot on each fore angle. Fore wings brown, black for one-third of the length from the base, and along two-thirds of the length of the costa, with a luteous costal dot at the base, and with a large luteous costal spot near the base. Hind wings blackish; veins black. Length of the body $4\frac{1}{2}$ lines, of the wings 10 lines.

Hab. New Guinea.

334. *AUFIDUS TRICOLOR*. *Mas.* Luteus, vertice gutta antica nigra transversa, alis cinereis hyalinis, alis anticis basi luteis apices versus subluridis venis piceis, alis posticis nigro venosis.

Male. Luteous. Head rather narrower than the thorax; vertex rounded in front, much broader than long, with a transverse black dot on the fore border; front convex, with a shallow middle furrow and with fine transverse striæ on each side. Wings cinereous, hyaline. Fore wings luteous towards the base, with a lurid tinge towards the tips; veins piceous. Hind wings with black veins. Length of the body 3 lines, of the wings 8 lines.

Hab. Aru.

335. *AUFIDUS CRASSIVENA*. *Mas.* Luteus, vertice fasciis duabus nigris, scuto nigro bifasciato, scutello nigro-bistrigato, alis pellucidis nigro venosis, alis anticis basi luteis venis crassis ex parte nigro marginatis.

Male. Luteous. Head rather narrower than the thorax; vertex much broader than long, rounded in front, with two black bands, one on the fore border, the other on the hind border; front convex, smooth, with a very slight longitudinal furrow. Scutum with two black bands, one in the middle, the other on the hind border; scutellum with a

black streak on each side. Tarsi with black tips. Wings pellucid; veins black. Fore wings luteous towards the base; veins thick, partly black-bordered. Length of the body 2 lines, of the wings 6 lines.

Hab. Gilolo.

336. *AUFIDUS ALBOATER*. *Mas.* Ater, capite subconico, scuto albo-fasciato, scutelli disco albo, tibiis posticis albo fasciatis, tarsis posticis albis apice nigris, alis anticis fasciis tribus albis, 2^a 3^aque divisis, alis posticis cinereis apice nigris.

Male. Deep black. Head somewhat conical; vertex much broader than long, slightly excavated; front convex, with fine transverse striae on each side, and with a longitudinal furrow. Scutum with a white band on the fore border; scutellum with a white disk. Hind tibiae with a broad white band; hind tarsi white, with black tips. Fore wings with three white bands; first band entire basal; second composed of three transverse streaks, of which two are costal and one is on the hind border; third of three longitudinal and apical streaks. Hind wings cinereous, hyaline, black towards the tips; veins black. Length of the body 2½ lines, of the wings 5½ lines.

Hab. Mysol; New Guinea.

Genus *PTYELUS*, *St. Farg. et Serv.*

337. *PTYELUS VICARIUS*. *Mas.* Fulvus, subtus pallide flavus, verticis disco scutoque antico piceo subnebulosis, fronte convexa transverse striata, scuto nigricante vittato, alis anticis plagis pallidioribus fasciisque picea lata obliqua postice furcata strigam albidam includente, alis posticis cinereis.

Male. Tawny, pubescent, pale yellow beneath. Disk of the vertex and fore part of the scutum slightly piceous-clouded. Front convex, finely and transversely striated on each side. Scutum with a blackish stripe. Fore wings with some paler patches, and with a broad oblique irregular piceous band, which is forked towards the hind border and includes an oblique whitish streak, the latter proceeding from the costa. Hind wings cinereous. Length of the body 4½ lines, of the wings 10 lines.

Hab. New Guinea.

338. *PTYELUS PECTORALIS*. *Mas.* Picea, subtus pallide testacea, vertice brevicónico, fronte convexa transverse striata, scuto subcarinato, scutelli apice abdomine pedibusque fulvis, alis anticis ferrugineis fasciis duabus antice connexis strigaeque posticae piceae macula costali albida, alis posticis fusciscenti-cinereis.

Male. Piceous, pale testaceous beneath. Head and thorax minutely punctured. Head narrower than the thorax; vertex conical, twice as broad as long; front convex, transversely striated on each side; face not keeled. Scutum with a slight keel; scutellum with a tawny tip.

Abdomen and legs tawny. Fore wings ferruginous, with two irregular piceous bands, which are united near the costa, and of which the first joins a piceous streak along the basal part of the hind border; a whitish costal spot joining the outer side of the second band. Hind wings brownish-cinereous, hyaline; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. New Guinea.

339. *PTYELUS SEXPUNCTATUS*. *Mas.* Piceus, robustus, fronte transverse striata, alis anticis flavescenti-albo tripunctatis, alis posticis diaphanis.

Male. Piceous, stout, shining, minutely punctured. Head as broad as the thorax; vertex twice as broad as long, rounded along the fore border; front transversely striated. Scutum with a very slight keel. Fore wings with three yellowish-white points in the disk; first and second points antemedial; second behind the first; third nearer the costa, at somewhat before two-thirds of the length. Hind wings pellucid; veins black. Length of the body 4 lines, of the wings 8 lines.

Hab. New Guinea.

340. *PTYELUS PLENIPENNIS*. *Fœm.* Testaceus, robustus, capite conico, fronte nigro flavoque marginata, thorace alisque anticis cervino conspersis, alis posticis cinereis nigro venosis.

Female. Testaceous, stout. Head conical, as broad as the thorax; vertex much broader than long; front flat, bordered with black and with pale yellow, transversely striated on each side. Thorax and fore wings minutely specked with fawn-colour. Hind wings cinereous, hyaline; veins black. Length of the body $3\frac{1}{2}$ lines, of the wings 6 lines.

Hab. Aru; New Guinea.

341. *PTYELUS FRONTALIS*. *Fœm.* Testaceus, depressus, capite conico lineis duabus anticis transversis nigris, alis posticis diaphanis pallido venosis.

Female. Testaceous, flat. Head conical, with a black line along the fore border; underside with a black conical line, which approaches very near the line of the fore border. Legs short. Hind wings pellucid; veins pale. Length of the body 2 lines, of the wings 4 lines.

Hab. New Guinea.

342. *PTYELUS MONOSTIGMA*. *Mas.* Testaceus, latus, fronte striis lateralibus piceis obliquis, thoracis lateribus angulatis, alis anticis semihyalinis striga costali subapicali picea, alis posticis cinereis.

Male. Testaceous, broad. Head and thorax minutely punctured; head not so broad as the thorax; vertex rounded along the fore border; front convex, with piceous oblique striæ on each side. Thorax obtusely angular on each side. Fore wings semihyaline, with a short

piceous streak along the tip of the costa; veins pale. Hind wings cinereous, with black veins. Length of the body 2 lines, of the wings 4 lines.

Hab. Morty.

343. *PTYELUS IMPRESSUS*. *Mus*. Pallide testaceus, latus, capite thoraceque antico ochraceo-testaceis, vertice brevicornico, abdomine pallide ochraceo, pedibus robustis, alis anticis semihyalinis linea subapicali e venis transversis, alis posticis diaphanis pallido venosis.

Male. Pale testaceous, broad. Head and fore part of the thorax with an ochraceous tinge. Head not so broad as the thorax; vertex short, conical; front convex, with transverse striæ on each side. Thorax minutely punctured. Abdomen mostly pale ochraceous. Legs short, stout. Fore wings semihyaline, with a subapical line of transverse veins. Hind wings pellucid; veins very pale. Length of the body 2 lines, of the wings 5 lines.

Hab. New Guinea.

Genus PERINOIA, *Walk.*

344. *PERINOIA ORNATA*. Ferrugineo-fusca, capite thoraceque flavo univittatis, capite conico strigis duabus lateralibus pallide flavis, scuto flavo-bimaculato, pedibus fulvis, tarsis fuscis, alis anticis apices versus luridis maculis quinque elongatis guttaque flavis linea marginali nigricante, alis posticis fusciscenti-cinereis.

Ferruginous-brown. Head and thorax with a yellow stripe, which increases in breadth from the front of the head. Head conical, shorter than the scutum, with a pale yellow streak along each side. Scutum with yellow spot on each angle. Legs tawny; tarsi brown. Fore wings lurid about the tips and about the adjoining part of the costa and of the hind border; a blackish line round the tips; five elongated yellow spots, two near the base, larger than the others; a yellow dot close to the hind side of the third spot, which is near the hind border. Hind wings brownish cinereous; veins black. Length of the body $4\frac{1}{2}$ lines, of the wings $7\frac{1}{2}$ lines.

Hab. Dorei.

345. *PERINOIA SEPARATA*. *Fœm*. Fulva, capite fasciis tribus flavis lineaque antica transversa nigra, scuti margine antico piceo, tibiis tarsisque apice piceis, illis basi piceis, alis anticis piceis margine postico apiceque fulvis strigis duabus obliquis flavis antice approximatis.

Female. Tawny. Head conical, with a black line along its fore border, and with three narrow pale-yellow bands on the vertex; first band connected with the black line, joining the second on each side; third on the hind border; underside with a bright yellow black-bordered stripe on each side, and continued on each side of the pectus. Scu-

tum piceous along the fore border. Tibiæ and tarsi piceous towards the tips; tibiæ piceous at the base. Fore wings piceous, tawny along most of the hind border and towards the tips; two yellow oblique streaks; first streak extending outward from near the base of the hind border; second extending outward from the costa beyond the middle. Hind wings cinereous, hyaline. Length of the body 5 lines, of the wings 10 lines.

Hab. New Guinea.

346. *PERINOIA DEFLEXA*. *Fœm.* Fulva, capite conico lato, vertice brevi fasciis duabus lateribusque pallide flavis, fronte pectoreque vittis duabus flavis piceo marginatis, scuto fascia antica pallide flava, abdomine ochraceo, alis anticis strigis duabus flavis obliquis antice approximatis, alis posticis cinereo-hyalinis.

Female. Tawny, stout, minutely punctured. Head conical, as broad as the thorax; vertex much broader than long, pale yellow along each side, with a slight transverse furrow, and with two pale-yellow bands; front and pectus with a yellow piceous-bordered stripe on each side; front obliquely striated on each side. Scutum with a narrow pale yellow band near the fore border. Abdomen ochraceous. Legs stout; tips of the tibiæ and of the tarsi piceous. Fore wings with two yellow oblique streaks, one extending from the disk towards the base of the hind border, the other extending outward from very near the costa. Hind wings cinereous, hyaline; veins black. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. Mysol.

347. *PERINOIA DISJUNCTA*. Testacea, capite ferrugineo fasciis tribus flavis lineaque antica transversa nigra, scuto fascia antica flava ferrugineo marginata, scutello flavo fascia lata fulva, tibiis tarsisque nigricantibus, alis anticis piceis postice fulvis vitta brevi strigisque duabus obliquis flavis, alis posticis cinereo-hyalinis.

Testaceous. Head conical, with a black line along the fore border; vertex ferruginous, with three narrow yellow bands, the first connected with the black line; underside and pectus blackish, with two bright yellow stripes, which are connected in front. Scutum with a yellow ferruginous-bordered band near the fore border; scutellum yellow, with a broad tawny band. Tibiæ and tarsi blackish. Fore wings piceous, tawny towards the hind border, with a short yellow stripe, which extends from the base near the hind border, and joins the hind end of an oblique yellow streak, the latter not extending to the costa; a second streak extending from the costa near the fore end of the first to the outer part of the disk. Hind wings cinereous. Length of the body 4 lines, of the wings 3 lines.

Hab. Dorei.

348. *PERINOIA SUBJUNCTA*. *Fœm.* Picea, capite fasciis tribus flavis

arcuatis antice fulvo nigro-marginato, thorace pallide fulvo, scuto fasciis duabus anticis piceis, scutello maculis duabus apiceque flavis, abdomine pedibusque rufescenti-fulvis, tibiis anterioribus basi tibiisque posticis piceis, alis anticis vitta antemedia arcuata strigisque tribus exterioribus apice connexis flavis, alis posticis cinereo-hyalinis.

Female. Piceous. Head pale tawny along the fore border, which is black; three narrow curved yellow bands; underside and pectus black, with two bright yellow stripes. Thorax pale tawny; scutum with two narrow piceous bands in front; scutellum with a pale yellow spot on each side, and with a pale yellow tip. Abdomen and legs reddish tawny; anterior tibiæ at the base and hind tibiæ piceous above; tips of tarsi black. Fore wings with a yellow stripe, which extends from the base to almost half the length, and is curved towards the costa; three exterior yellow streaks, which are united at the tip; first subcostal, second oblique, third on the hind border. Hind wings cinereous, hyaline. Length of the body 4 lines, of the wings 8 lines.

Hab. New Guinea.

349. *PERINOIA PLACENS.* *Fem.* Fusca, vertice conico fasciis tribus subarcuatis pallide flavis, fronte fusca elliptica transverse striata, pectore flavo-bivittato, scuto flavo-bifasciato postice testaceo, scutello testaceo-univittato, pedibus pallide luteis, tibiis tarsisque anticis piceis, alis anticis litura postica magna angulata apiceque pallide luteis strigis duabus pallide flavis, alis posticis cinereis.

Female. Brown. Vertex conical, with three pale yellow slightly arched bands; front dark brown, elliptical, transversely striated; head beneath and pectus with a yellow stripe on each side. Scutum with two pale yellow bands; hind part pale testaceous, deeply excavated in the middle; scutellum with a pale testaceous stripe. Legs pale luteous. Fore tibiæ and fore tarsi piceous. Fore wings pale luteous about the tips, and with a large irregular pale luteous mark on the hind border; two bright pale yellow streaks; first streak curved from the base nearly to the costa; second extending obliquely from the costa nearly to the tip of the hind border. Hind wings hyaline, cinereous; veins black. Length of the body $3\frac{1}{2}$ lines, of the wings 7 lines.

Hab. Aru; Mysol.

350. *PERINOIA LITURIPLENA.* *Mas.* Fulva, lata, subtus nigra, thorace alisque anticis fusco conspersis, femoribus anterioribus basi pedibusque posticis nigris, alis anticis albido guttatis, alis posticis cinereis.

Male. Tawny, broad, black beneath. Head rounded in front; vertex twice as broad as long; front smooth, horizontal, beneath the vertex. Thorax and fore wings minutely mottled with brown. Anterior femora towards the base and hind legs black. Fore wings with some

whitish dots, most of which are near the tips. Hind wings cinereous; veins black. Length of the body $2\frac{1}{4}$ lines, of the wings 4 lines.

Hab. Mysol.

351. *PERINOIA FURCATA*. *Fæm.* Testacea, capite fasciis tribus arcuatis piceis lineaque antica nigra, scuto fasciis duabus nigris, abdomine piceo subtus luteo, pedibus luteis, tibiis anticis supra piceis, alis anticis nigris costa apicem versus margineque postico testaceis vitta abbreviata apud costam arcuata strigaeque postmedia obliqua furcata flavis, alis posticis cinereo-hyalinis.

Female. Testaceous. Head with a black line on the fore border, and with three narrow curved piceous bands; underside black, with a bright yellow stripe on each side. Scutum with two narrow black bands. Pectus yellow, with a lanceolate black streak on each side. Abdomen piceous, luteous beneath. Legs luteous; tarsi with black tips; fore tibiæ piceous above. Fore wings black, irregularly testaceous along the hind border; costa testaceous towards the tip; a yellow stripe extending from the base to a little beyond half the length, curved towards the costa; a yellow streak extending from two-thirds of the length of the costa to the tip of the hind border, forked near its tip. Hind wings cinereous, hyaline; veins black. Length of the body 4 lines, of the wings 8 lines.

Hab. Sula.

352. *PERINOIA FURCIFERA*. *Fæm.* Picea, capite fasciis quatuor flavis lineaque antica transversa nigra, scuto fasciis duabus arcuatis flavis postice fulvo, scutello vitta fulva apice flava, alis anticis vitta arcuata costam attingente vitta postica interrupta abbreviata striga antica radiis nonnullis costaque apicem versus flavis, alis posticis cinereo-hyalinis.

Female. Piceous. Head with a black line on the fore border, and with four narrow yellow bands, first and second bands connected on each side; underside black, with a yellow stripe on each side. Scutum with two curved narrow yellow bands; hind part tawny; scutellum with a tawny stripe, which is yellow at the tip. Pectus piceous, with two yellow stripes. Legs tawny. Fore wings with a yellow stripe, which proceeds from the base to half the length, and is curved towards the costa; an interrupted and abbreviated yellow stripe along the hind border; a yellow streak proceeding from the costa beyond the middle to the exterior disk, with three rays at its tip, between which and the costa there are two other rays, of which one is sometimes obsolete; costa yellow towards the tip. Hind wings cinereous, hyaline; veins black. Length of the body $3\frac{1}{4}$ lines, of the wings $7\frac{1}{2}$ lines.

Hab. Ceram.

This species is very nearly allied to *P. furcata*; but the stripe of the fore wing is more curved, and the exterior streak is less oblique.

353. *PERINOIA SUBFURCATA*. *Fam.* Nigra, capite flavo fasciis duabus (1^a abbreviata) piceis lineaque antica nigra, facie rufescente strigata, scuto fascia strigisque duabus flavis, scutello flavo strigulis duabus nigris, abdomine pedibusque luteis, femoribus anticis piceo strigatis, tibiis intermediis basi apiceque tibiisque anticis piceis, alis anticis striga basali obliqua fascia media subarcuata striga postmedia obliqua furcata strigulaque posteriore flavis costa margineque postico apicem versus pallide testaceis, alis posticis cinereo-hyalinis.

Female. Black. Head yellow, with a black line on the fore border, and with two piceous bands, of which the first is shortened; underside black, with two bright yellow stripes; face with a reddish streak. Scutum with a yellow band, and with a pale yellow streak on each side; scutellum yellow, with a little black streak on each side. Pectus pale yellow, with a black streak, and with an exterior bright yellow stripe on each side. Abdomen and legs luteous; tarsi with black tips; fore femora with a piceous streak; fore tibiæ piceous above; middle tibiæ piceous above at the base and at the tips. Fore wings with a yellow streak, which extends obliquely from the base nearly to a slightly curved middle yellow band; another yellow streak extending obliquely from the costa to the tip of the wing, forked near its tip, the fore fork ramose; a very little streak in the disk behind the above streak; exterior part of the costa and of the hind border pale testaceous. Hind wings cinereous, hyaline; veins black. Length of the body $3\frac{1}{2}$ lines, of the wings 7 lines.

Hab. Gilolo; Ternate.

354. *PERINOIA PLENA*. *Fam.* Pallide flava, capite linea antica transversa nigra fasciisque tribus lineisque frontalibus transversis piceis, thorace piceo-quadrifasciato, abdomine pedibusque fulvis, alis anticis vittis duabus basi connexis striga basali striga media arcuata strigisque quatuor exterioribus flavis, alis posticis cinereo-hyalinis.

Female. Pale yellow. Head with a black line along the fore border and with three narrow piceous bands; front with transverse piceous lines. Thorax with four narrow piceous bands. Abdomen and legs tawny. Fore wings with two yellow stripes proceeding from the base, where they are united; first stripe curved, joining the costa at rather before half the length; second extending along the hind border, dilated in the middle, united with a curved yellow streak, which proceeds from the disk; a short slender streak proceeding from the base in front of the first stripe; four exterior yellow streaks; first oblique, extending from the costa; second near the first, extending along the costa to the tip, where it joins the third, which

proceeds from the disk; fourth behind the third, short, slender. Hind wings cinereous, hyaline; veins black. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. Sula.

355. *PERINOIA TRANSVERSA*. *Mas.* Ferrugineo-fusca, robusta, capite testaceo, vertice fusco-bifasciato, fronte transverse striata, scuto fascia antica flava subundulata, pectore pallide luteo lateribus nigris, pedibus luteis, tibiis basi piceis, alis anticis flavo bistrigatis, alis posticis cinereo-hyalinis.

Male. Ferruginous-brown, stout, punctured. Head testaceous, as broad as the thorax; vertex twice as broad as long, rounded in front, with a slight transverse furrow, and with two brown bands, of which the fore one is abbreviated; front convex, transversely and minutely striated; face small. Scutum with a narrow, slightly undulating, yellow band near the fore border. Pectus pale luteous, black on each side. Legs luteous, stout; tibiae piceous at the base; tarsi blackish towards the tips. Fore wings with two yellow streaks; first streak antemedial, extending from the disk to the hind border; second postmedial, extending from the costa to the disk. Hind wings cinereous, hyaline; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. Mysol.

356. *PERINOIA PUSTULICEPS*. *Fem.* Picea, capite luteo, vertice fasciis duabus piceis dentatis, fronte convexa transverse striata prope verticem picea, facie basi picea, thorace linea transverse antica lutea subundulata, pectore disco vittisque duabus flavis, pedibus luteis, alis anticis fascia antemedia angusta abbreviata strigaeque transverse flavis, alis posticis fuscis.

Femal. Piceous. Head luteous, as broad as the thorax; vertex twice as broad as long, with two piceous dentate bands; second band on the fore border; front convex, piceous except towards the vertex, transversely and very slightly striated; face piceous towards the base. Rostrum luteous, extending beyond the middle coxae. Thorax with a transverse, luteous, slightly undulating line near the fore border. Pectus with a yellow stripe on each side, and with a yellow disk. Legs luteous. Fore wings with a narrow, yellow, antemedial band, which is much abbreviated towards the costa; a yellow transverse streak extending from the costa at two-thirds of the length. Hind wings brown, hyaline; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. New Guinea.

357. *PERINOIA BADA*. *Fem.* Badia, vertice maculis duabus pallide fulvis, fronte fascia pallide fulva, ventre apice pedibusque fulvis, alis

anticis fascia fulva antemedia angusta abbreviata macula costali postmedia flava trigona, alis posticis nigricantibus.

Female. Chestnut-brown, shining. Vertex with a pale tawny spot on each side of the hind border; front with a pale tawny band between the eyes. Rostrum, abdomen towards the tips beneath, and legs tawny. Fore wings with a narrow tawny antemedial band which does not extend to the costa; a triangular yellow costal spot at rather beyond two-thirds of the length. Hind wings blackish, hyaline; veins black. Length of the body 4 lines, of the wings 10 lines.

Hab. Aru.

358. *PERINOIA VARIPES.* Testacea, vertice conico linea antica transversa nigra, fronte nigra transverse striata luteo marginata, scuto piceo testaceo-fasciato, scutello fascia subapicali piceo, pectore vittis duabus luteis duabusque piceis, tibiis anticis supra tarsisque anticis nigris, tibiis intermediis basi tarsisque intermediis piceis, alis anticis nigricantibus plaga postica fusca magna strigisque tribus latis luteis, alis posticis subcinereo-hyalinis.

Testaceous. Head as broad as the thorax; vertex conical, with a black line along the fore border; front black, transversely striated, with a luteous border. Scutum piceous; a testaceous band very near the fore border, slightly abbreviated on each side. Scutellum with a piceous band near its tip. Pectus with two piceous stripes, and with an intermediate luteous stripe on each side. Fore tibiæ black above; fore tarsi black; middle tibiæ piceous at the base; middle tarsi piceous. Fore wings blackish, with a large brown patch along the exterior part of the hind border, and with three large luteous streaks; first and second streaks costal; first before the middle; second beyond the middle; third extending obliquely from the hind border to the disk. Hind wings hyaline, slightly cinereous; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. Batchian.

Sect. *n.*

Æm. Corpus depressum, sat latum. Caput conicum, transversum; frontis latera oblique striata. Rostrum coxas intermedias attingens. Thorax capite non longior. Pedes breves, validi; tibiæ postice bispinosæ. Alæ anticæ coriaceæ.

Female. Body flat, rather broad. Head conical, broader than long, nearly horizontal beneath, where the front is obliquely striated on each side. Rostrum extending to the middle coxæ. Thorax not longer than the head. Scutellum rather shorter than the scutum. Legs short, stout; hind tibiæ with apical spines and with two other spines, one near the base,

the other beyond the middle; hind tarsi spinose. Fore wings coriaceous.

359. *PERINOIA INDICATRIX*. *Fem.* Nigra, capite et thorace subtus luteis flavo bivittatis, capitis lateribus luteis, tarsis posticis tibiisque piccis, alis anticis apice et apud marginem posticum late ferrugineis, alis posticis cinereo-hyalinis.

Female. Black. Head beneath and pectus luteous, with a yellow stripe along each side; head luteous along each side. Tibiæ and hind tarsi piceous; anterior tarsi with black tips. Fore wings broadly ferruginous about the tips and along the hind border. Hind wings cinereous, hyaline; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. Mysol.

360. *PERINOIA FUSIFORMIS*. *Fem.* Nigra, fusiformis, sat plana, capite thoraceque transverse striatis, capite conico scuto longiore, scuto subcarinato, pedibus robustis, alis anticis scitissime punctatis, alis posticis cinereo-hyalinis.

Female. Black, fusiform, rather flat. Head and thorax minutely and transversely striated; head conical, longer than the scutum, which is longer than the scutellum, and slightly keeled. Legs stout. Fore wings opaque, very finely punctured. Hind wings cinereous, hyaline. Length of the body 3 lines, of the wings 6 lines.

Hab. New Guinea.

Subtribe *SERRIPEDES*, *Amyot et Serv.*

Group *Tettigonides*.

Genus *TETTIGONIA*, *Latr.*

361. *TETTIGONIA GUTTIVITTA*. *Fem.* Cupreo-nigra, vertice lituris quatuor nigris ramosis connexis, fronte punctis duobus guttisque tribus nigris, scuto strigis duabus guttisque duabus fasciaque subapicali pallide flavis, abdomine maculis lateralibus pallide flavis, ventre pedibusque ochraceis, alis posticis subhyalinis striga antemedialata cinerea.

Female. Cupreous black. Head ochraceous, with four black ramose connected marks on the vertex, with two black points, and with three black dots on the front, the third dot in advance of the other two. Scutum in front with a short, pale yellow, longitudinal streak, and with a pale yellow dot on each side; scutellum with a pale yellow dot on each side, and with a pale yellow band near its tip. Pectus pale yellow. Abdomen with pale yellow spots along each side; underside ochraceous, pale yellow towards the tip. Legs ochraceous.

Hind wings nearly hyaline, with a broad cinereous streak near the base. Length of the body 7 lines, of the wings 14 lines.

Hab. Celebes.

362. *TETTIGONIA MACULICOLLIS*. *Mas et Fæm.* Lutea, vertice breviconico subascendente, fronte plana transverse striata, facie carinata, scuto scutelloque nigro-bimaculatis, pectore femoribusque albidis, abdomine albido maculis dorsalibus nigris segmentis ventralibus ochraceo fasciatis, alis anticis purpureo-nigricantibus apice cinereis venis basi luteis aut albidis, alis posticis nigricantibus.

Male and Female. Luteous. Head as broad as the thorax; vertex conical, slightly ascending, much broader than long; front flat, rounded and transversely striated on each side; face keeled. Scutum with a black spot on each side in front; scutellum with a black spot on each side of the transverse furrow. Pectus and femora whitish. Abdomen whitish, with a black spot on the fore border of each segment; underside whitish, with an ochraceous band on the hind border of each segment. Wings blackish. Fore wings with a purplish bloom; tips cinereous; veins luteous or whitish towards the base. Length of the body 8 lines, of the wings 16 lines.

Hab. Mysol; New Guinea; Waigiou.

363. *TETTIGONIA VITIFRONS*. *Fæm.* Plumbeo-picea, fronte subascendente, fronte transverse striata flavo bivittata, facie carinata lateribus flavis, scuto gnttis quatuor fasciaque interrupta flavis fascia posteriore livida, scutello apice livido, pectore rufescente lateribus flavis, abdomine pedibusque rufescentibus, tarsis anticis piccis, alis purpureo-nigris, aliis anticis apice cinereis.

Female. Piccous, suffused with plum-bloom colour. Head as broad as the thorax; vertex twice as broad as long, with a transverse furrow, in front of which it is slightly ascending; front with two yellow stripes, transversely and slightly striated on each side; an oblique ridge above each eye; face keeled, sides yellow. Scutum with four transverse yellow dots on the fore border, and with a narrow interrupted yellow band, which is connected with a posterior broader livid band; scutellum livid at the tip. Pectus reddish, yellow on each side. Abdomen and legs reddish; fore tarsi piceous. Wings purplish black. Fore wings cinereous at the tips. Length of the body 4 lines, of the wings 8 lines.

Hab. New Guinea.

364. *TETTIGONIA RUFICOSTA*. *Fæm.* Picea, vertice transverso margine antico flavo, fronte plana transverse striata maculis duabus magnis æneo-nigris vittis anterioribus tribus piccis, facie carinata piceo vittata, scuto flavescenti-fasciato, pectore pallide flavo, abdomine ochraceo, femoribus basi subtus pallide flavis, alis anticis viridescenti-nigris vitta subcostali rufa, alis posticis nigris.

Female. Piceous. Head as broad as the thorax; vertex more than twice as broad as long, transversely furrowed, with two protuberances on the fore border, which is yellow; an oblique ridge above each eye; front flat, transversely striated on each side, with a large æneous-black spot, in which there are three piceous stripes, the middle stripe much more slender than the others; face keeled, with a piceous stripe. Thorax with a purplish bloom; scutum with a yellowish band along the fore border. Pectus pale yellow. Abdomen orange. Legs with a purplish bloom; femora pale yellow beneath towards the base. Fore wings greenish black, here and there with plum-coloured marks; a red subcostal stripe. Hind wings black. Length of the body 6 lines, of the wings 12 lines.

Hab. Batchian.

The red costa of the fore wings, and the pale fore border of the thorax distinguish it from *T. farinosa*.

365. *TETTIGONIA INCONSPICUA.* *Mas et Fœm.* Ferruginea, subtus pallide flava, fronte plana transverse striata, facie carinata, abdominis dorso nigricante maculis lateralibus luteis, pedibus pallide flavis, tarsis anterioribus tibiis anticis supra tibiisque intermediis apice piceis, alis posticis nigricantibus.

Male and Female. Ferruginous, pale yellow beneath. Head as broad as the thorax; vertex depressed, twice as broad as long, rounded in front; an oblique ridge on each side above the eye; front flat, transversely striated on each side; face keeled. Abdomen blackish above, with luteous spots along the sides. Legs pale yellow; anterior tarsi, fore tibiæ above, and tips of middle tibiæ piceous. Hind wings blackish. Length of the body 6 lines, of the wings 12 lines.

Hab. New Guinea; Waigiou.

366. *TETTIGONIA TRIPUNCTATA.* *Mas.* Pallide flava, vertice vix ascendente nigro-biguttata, fronte plana transverse striata, facie carinata, scuto scutelloque nigro-bipunctatis, abdomine supra ochraceo, alis nigricantibus, alis anticis apice albidis hyalinis costa margineque postico luteis.

Male. Pale yellow. Head as broad as the thorax; vertex very much broader than long, hardly ascending, with a black dot on the fore border; front flat, rounded and transversely striated on each side; face keeled. Scutum with a black point on each side in front; scutellum with a black point on each side. Abdomen ochraceous above. Wings blackish. Fore wings whitish and hyaline towards the tips; costa and hind border luteous. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. Ceram.

367. *TETTIGONIA SCUTELLARIS.* *Mas.* Pallide flava, vertice linea

transversa bicarinata punctoque nigris, fronte plana transverse striata linea nigricante, facie carinata, scuto antice nigro-punctato postice viridescente, scutello macula trigona guttis duabus punctisque duobus nigris, abdominis dorso ochraceo, alis anticis purpureo-nigris plumbeo unistrigatis, alis posticis nigricantibus.

Male. Pale yellow. Head as broad as the thorax, vertex twice as broad as long, slightly, ascending, with a black festooned line and a black dot on the fore border; front flat, with a blackish line, transversely striated on each side; face keeled. Scutum with several black points on the fore part; hind part greenish; scutellum with a black triangular spot connected with a black dot and with an interior black point on each side. Abdomen ochraceous above. Fore wings purplish black, with a broad plum-bloom-coloured costal streak beyond the middle. Hind wings blackish. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. Batchian.

368. *TETTIGONIA IGNICEPS.* *Fæm.* Pallide flava, vertice rufo nigro-quadrifasciata, thorace rufo, scuto linea transversa bis arcuata strigulisque duabus nigris, scutello nigro-bifasciata, abdominis dorso nigro, alis anticis nigricantibus apud costam pellucidis, alis posticis fuscis.

Female. Pale yellow. Vertex bright red, broader than long, with four black spots, of which one is on the fore border, one on each side, and a smaller one in front. Thorax bright red; scutum with a black transverse festooned line on the hind border, and with a little black streak on each side; scutellum with a black triangular spot on each side. Abdomen black above. Fore wings blackish, pellucid along the costa. Hind wings brown; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. Flores.

369. *TETTIGONIA LEUCOPASA.* *Fæm.* Flavescenti-alba, vertice transverso, fronte facieque convexis, scutello apicem versus transverse sulcato, alis anticis apice albidis, alis posticis albis.

Female. Yellowish white. Vertex rounded in front, much broader than long; front and face convex. Scutellum with a transverse furrow near its tip. Oviduct tawny. Legs slender. Fore wings whitish towards the tips. Hind wings white. Length of the body $5-5\frac{1}{2}$ lines, of the wings 11 lines.

Hab. Mysol; New Guinea.

Much larger than *T. eburnea*, the front is less prominent, and there are no black marks on the head.

370. *TETTIGONIA TESTACEA.* *Fæm.* Testacea, gracilis, capite conico fascia antica rosea, pedibus longis, alis posticis fuscis nigro venosis.

Female. Testaceous, slender. Head conical; vertex much longer than

broad, with a rosy red band on the fore border; front flat, oblique. Legs long, slender. Wings semihyaline. Hind wings brown; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 5 lines.

Hab. Sula.

371. *TETTIGONIA ALBIDULA*. *Fam.* Flavescenti-alba, alis niveis semihyalinis.

Female. Yellowish white. Front with a flat disk, and with transverse striae on each side. Wings pure white, semihyaline. Length of the body 2 lines, of the wings 5 lines.

Hab. New Guinea.

Much smaller than *T. eburnea*, and the front is less prominent.

Group *Scarides*, Amyot et Serv.

GENUS PENTHIMIA, *Germar.*

372. *PENTHIMIA RANIFORMIS*. *Mas.* Nigra, longicliptica fere plana, fronte transverse striata verticem superante, facie parva, abdominis segmentis fulvo marginatis, pedibus fulvis, femoribus anterioribus basi femoribusque posticis nigris, alis anticis costa exteriore apice margineque postico luridis, alis posticis fuscis. *Var. β.* Alis anticis nigris guttis subapicalibus cinereis.

Male. Black, elongate elliptical, rather flat, minutely punctured. Head narrower than the thorax; vertex twice as broad as long; front extending beyond the vertex, transversely striated; face small, triangular. Scutum of the mesothorax full twice as broad as long; scutellum large. Hind borders of the abdominal segments tawny. Legs tawny; coxæ, anterior femora towards the base, and hind femora black. Fore wings lurid along the exterior part of the costa and of the hind border and about the tips. Hind wings brown, semihyaline. *Var. β.* Fore wings wholly black, except some cinereous dots near the tip of the costa. Length of the body 5 lines, of the wings 6 lines.

Hab. Celebes.

373. *PENTHIMIA VARIOLOSA*. *Mas.* Fulva, glabra, nitens, capite subcultriformi, vertice brevi, fronte nigra transverse striata, facie nigra testaceo unimaculata, scutelli margine antico nigro, alis anticis testaceis nigro subreticulatis striga obliqua fasciaque furcata nigris, alis posticis cinereis.

Male. Tawny, smooth, shining. Head as broad as the thorax, rounded, and forming a thin edge along its fore border; vertex four times as broad as long; front horizontal, not longer than the vertex, finely and transversely striated, black beneath; face black, with a testaceous spot. Scutellum black along the fore border. Fore wings testaceous, semihyaline, incompletely and irregularly reticulated with black; an

oblique black streak near the base, and a very irregular forked black band. Hind wings cinereous. Length of the body $1\frac{1}{4}$ line, of the wings $3\frac{1}{2}$ lines.

Hab. Waigiou.

374. *PENTHIMIA CALIGINOSA*. *Mas.* Nigra, lata, capite transverse striato, fronte brevissima, abdominis segmentis albido bimaculatis subtus fulvo marginatis, pedibus fulvis, femoribus intermediis basi femoribusque posticis nigricantibus, alis anticis cinereo notatis apice fuscis, alis posticis fuscis.

Male. Black, broad, shining, nearly smooth. Head rather narrower than the thorax; vertex twice as broad as long, transversely striated along the fore border; front very short, finely and transversely striated. Abdominal segments with a whitish spot on each side of the hind border above and with tawny hind borders beneath. Legs tawny; coxæ, middle femora towards the base, and hind femora, excepting the tips, blackish. Fore wings brown towards the tips, with some irregular cinereous semihyaline marks. Hind wings dark brown; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. Sula.

375. *PENTHIMIA RETIFERA*. *Fem.* Pallide flavescens, plana, lata, nigro conspersa, subtus nigra, pectoris lateribus testaceis, abdomine nigro segmentis flavo pallido marginatis maculis duabus basalibus flavis, femoribus nigris, alis cinereis nigro venosis, alis anticis nigro ex parte reticulatis spatio apicali non venoso.

Female. Pale yellowish, flat, broad, minutely mottled with black, black beneath. Head much broader than long; front flat, in a line with the vertex. Pectus testaceous on each side. Abdomen black, with a pale yellow band on the hind border of each segment; a pale yellow spot on each side above near the base. Legs short, slender; coxæ and femora black. Wings cinereous, hyaline; veins black. Fore wings partly and irregularly reticulated with black; space about the tips without veins. Length of the body 2 lines, of the wings $3\frac{1}{2}$ lines.

Hab. New Guinea.

376. *PENTHIMIA LURIDA*. Pallide testacea, lata, plana, capite brevicónico, abdomine nigro basi subtus et segmentorum marginibus pallide flavis apice luteo, pedibus pallide flavescantibus, alis anticis lurido-cinereis semihyalinis, venis fuscis apicem non attingentibus, alis posticis fuscis.

Pale testaceous, broad, flat, shining. Head short-conical. Abdomen black; base beneath and hind borders of the segments pale yellow; tip luteous. Legs pale yellowish. Fore wings pale cinereous, with a lurid tinge, semihyaline; veins brown, not extending to the tip.

Hind wings brown; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 5 lines.

Hab. Mysol.

377. *PENTHIMIA ATOMARIA*. *Mas.* Piceo-nigra, lata, nitens, alis anticis flavescente conspersis.

Male. Piceous black, broad, shining, very minutely punctured. Head as broad as the thorax; vertex rounded in front, twice as broad as long; front horizontal, under the vertex. Legs moderately long and stout. Fore wings thickly covered with pale yellowish speckles. Length of the body 2 lines, of the wings 4 lines.

Hab. Mysol.

Group *Iassides*, Amyot et Serv.

Gen. *PETALOCEPHALA*, Stål.

378. *PETALOCEPHALA SPECULARIA*. *Mas.* Fulva, capite scutoque flavescenti-punctatis, capite cultriformi maculis duabus anticis magnis pellucidis, scutello albido margine antico fulvo, pedibus anticis albidis, pedibus posticis piceis tarsis basi et tibiæ spinis flavescens, alis albidis, alis anticis apice pallide fuscis ferrugineo venosis striga subapicali picea.

Male. Tawny. Head and scutum with numerous pale yellowish points. Head conical, keeled, broader than long, extremely thin in front, where there is a large pellucid spot on each side. Scutellum whitish, tawny along the fore border. Anterior legs whitish, with a rosy tinge on the femora; hind legs piceous, tarsi at the base and spines of the tibiæ yellowish. Wings whitish, hyaline. Fore wings with ferruginous veins, and with a piceous subapical streak; tips pale brown. Length of the body 4 lines, of the wings 7 lines.

Hab. New Guinea.

379. *PETALOCEPHALA BISPECULARIS*. *Mas.* Rufa, lata, plana, flavo conspersa, capite conico subtus nigro maculis duabus anticis albidis semihyalinis carina tenui postice nigricante, pectore nigro, segmentorum abdominalium marginibus pedibusque anterioribus pallide flavis, pedibus posticis nigris, alis anticis albido-hyalinis aureo nitentibus fascia obliqua venisque rufis, gutta subapicali nigra elongata.

Male. Red, broad, thin, nearly flat, yellow-speckled. Head conical, much longer than the scutum, with a large whitish semihyaline spot on each side in front, and with a slight keel, which is blackish towards the hind border, underside black, except the spots. Pectus black. Hind borders of the abdominal segments and anterior legs pale yellow. Hind legs black. Fore wings whitish, hyaline, with gilded reflections and with an irregular red band which extends from two-thirds of the

length of the costa to the base of the hind border; an elongate black subapical dot; veins red. Length of the body $4\frac{1}{2}$ lines, of the wings 8 lines.

Hab. Mysol.

380. *PETALOCEPHALA SUBACTA*. *Fam.* Testacea, capite longo spatulato, fronte quinquecarinata, thorace unicarinato, pedibus robustis, alis posticis diaphanis fulvo venosis.

Female. Testaceous, minutely punctured. Head conical, spatulate, as long and as broad as the scutum; front horizontal, beneath the scutum, with five keels. Thorax with a very slight keel. Legs stout; anterior legs short. Hind wings pellucid; veins tawny. Length of the body 5 lines, of the wings 7 lines.

Hab. Mysol.

More slender than *P. chlorocephala*, and with a more elongated head.

381. *PETALOCEPHALA PORRIGENS*. *Fam.* Fulva, gracilis, subtus testacea, capite longo conico subcarinato subtus quinquesulcato, scuto transverse subsulcato, alis anticis apices versus reticulatis, alis posticis cinereo-hyalinis.

Female. Tawny, slender, minutely punctured, testaceous beneath. Head conical, with a slight keel, much longer than the scutum, with five longitudinal furrows beneath. Scutum with a slight transverse furrow. Fore wings reticulated with veins towards the tips. Hind wings cinereous, hyaline; veins piceous. Length of the body 5 lines, of the wings 8 lines.

Hab. Gilolo.

This species is narrower than *P. subacta*, and the head is longer and more conical.

382. *PETALOCEPHALA DECLIVIS*. *Mas.* Pallide lutea, capite vix ascendente subtus piceo-vittato et nigricanti-fasciato antice conico lateribus subangulatis, abdomine ferrugineo segmentorum marginibus posticis apiceque albidis, femoribus piceis, alis anticis apud costam et apicem versus reticulatis, alis posticis cinereis.

Male. Pale luteous, minutely punctured. Head very slightly ascending, as broad as the thorax, much broader than long, conical along the fore border, very obtusely angular on each side near the eyes; underside whitish about the antennæ, and towards the mouth, piceous along the fore border, with a lanceolate piceous stripe, and with an arched blackish band. Pectus whitish, blackish along each side. Abdomen ferruginous; hind borders of the segments and tips whitish. Femora piceous. Fore wings irregularly reticulated along the costa and towards the tips. Hind wings cinereous; veins tawny. Length of the body 4 lines, of the wings 7 lines.

Hab. New Guinea.

Gen. CÆLIDIA, *Germer*.

Section 1.

383. CÆLIDIA DIVERSA. *Fœm.* Ferrugineo-rufa, lata, robusta, capite pallide flavo fasciis quatuor ferrugineis, thorace brevi, pectore nigro, abdomine fulvo dimidio basali pallide flavo fascia subapicali picea ventre piceo segmentis flavo marginatis, pedibus fulvis, alis anticis nigricante conspersis flavo guttatis apice sordide flavescens, alis posticis fuscis.

Female. Ferruginous red, broad, stout. Head pale yellow, with four ferruginous bands; first band on the vertex, very narrow; second on the front; third and fourth incomplete, on the face. Scutum thrice as broad as long, slightly arched. Pectus mostly black. Abdomen tawny, pale yellow for half the length from the base; a piceous band nearer the tip; underside mostly piceous; hind borders of the segments yellow. Legs tawny; hind legs long; hind tibiæ spinous, with blackish tips. Fore wings blackish-mottled, yellow-dotted; tips pale dingy-yellowish. Hind wings brown, with black veins. Length of the body 3–3½ lines, of the wings 6–7 lines.

Hab. Mysol; New Guinea; Waigiou.

The pale-pointed veins of *C. dirigens* sufficiently distinguish it from this species.

384. CÆLIDIA PICEA. *Fœm.* Picea, vertice transverso tricarinato pallide flavo fusco-notato, fronte longa, antennis flavescens, thorace maculis duabus lateralibus flavis, abdominis segmentis flavo marginatis, pedibus flavis, alis anticis cupreis lurido-cinereo lituratis, alis posticis nigricantibus.

Female. Piceous. Vertex pale yellow, arched, a little broader than long, with some brown marks on the fore border and on the hind border, with three keels, the keel on each side diverging in front from the middle one; front twice as long as broad. Antennæ yellowish; setæ very long. Thorax largely punctured, with a yellow spot on each side. Abdomen yellowish beneath; hind borders of the segments pale yellow. Oviduct extending much beyond the tip of the abdomen. Legs yellow. Fore wings cupreous, with some lurid-cinereous marks, of which the most conspicuous is on the costa at three-fourths of the length. Hind wings blackish, with black veins. Length of the body 3 lines, of the wings 6 lines.

Hab. Mysol.

385. CÆLIDIA SUBNOTATA. *Fœm.* Fulva, vertice pallide testaceo, fronte rufescente transversa, scuto testaceo-consperso, scutello pec-

torque piceis, hujus lateribus pallide luteis, abdomine piceo subtu basi pallide luteo, pedibus pallide flavis, pedibus posticis longissimis, femoribus piceis, alis anticis æneo-fuscis linea transversa e punctis albidis, alis posticis fuscis.

Female. Tawny. Vertex pale testaceous, not as long as broad, slightly notched on each side next the hind border; front reddish, twice as long as broad. Scutum with testaceous speckles; scutellum piceous. Pectus piceous, pale luteous on each side. Abdomen piceous, pale luteous beneath towards the base. Legs pale yellow; hind legs very long, with piceous femora. Wings brown; veins black. Fore wings æneous-tinged, with a line of various whitish points, which is much nearer the tip on the costa than on the hind border. Length of the body $3\frac{1}{2}$ lines, of the wings 7 lines.

Hab. Mysol.

386. *CÆLIDIA VERTICALIS.* *Fœm.* Picea, vertice albido nigricantibifasciato, scuto flavescenti-punctato, pectore flavescenti-biguttato, pedibus anterioribus pallide flavis, alis anticis cupreo-piceis albido strigatis, alis posticis fuscis.

Female. Piceous. Head a little narrower than the thorax; vertex whitish, with two blackish bands in front, where it is broader; front long, flat. Scutum with numerous yellowish points. Pectus with a yellowish dot on each side. Abdomen whitish and with slight ochraceous bands towards the base. Legs long, slender; anterior legs pale yellow; hind tarsi pale yellow towards the base. Fore wings with a cupreous tinge, and with several whitish hyaline streaks, some of which are angular or cuneiform. Hind wings brown; veins black. Length of the body 3- $3\frac{1}{2}$ lines, of the wings 6-7 lines.

Hab. Sulá; New Guinea.

387. *CÆLIDIA MARGINIFRONS.* *Fœm.* Picea, vertice subcarinato, fronte fusiformi rufescente transverse striata flavescenti-marginata, facie rufescente pallido-marginata, thorace macula margineque fulvis, pectore pallide fulvo piceo-binotato, abdominis segmentis ventralibus nigricante fasciatis, alis nigricantibus, alis anticis cinereo punctatis, costa rufescente.

Female. Piceous. Head pale yellowish, not so broad as the thorax; vertex with a slight keel and with slightly elevated borders, slightly increasing in breadth from the hind border to the fore border, where it is a little longer than broad; front flat, reddish, fusiform, slightly and transversely striated on each side, with a pale yellowish border; face reddish, with a broad paler border. Thorax with tawny borders; scutum slightly tuberculate; scutellum with a transverse tawny spot in the disk. Pectus pale tawny, with a piceous mark on each side.

Abdomen beneath with a blackish band on each segment. Oviduct extending somewhat beyond the abdomen. Wings blackish; veins black. Fore wings with several pale cinereous points; costa reddish. Length of the body 4 lines, of the wings 8 lines.

Hab. Mysol.

388. *CÆLIDIA CANIFASCIA*. *Fœm.* Nigra, robusta, vertice livido guttis duabus anticis nigricantibus, abdomine fascia basali lata albida, pedibus anterioribus albidis, pedibus posticis longissimis, alis anticis e lituris albidis trifasciatis, alis posticis nigricantibus.

Female. Black, stout. Head nearly as broad as the thorax; vertex livid, not so broad as long, with a blackish dot on each side in front; front flat, more than twice as long as broad. Rostrum whitish. Abdomen with a broad basal whitish band. Legs long, slender; anterior legs whitish; hind legs black, much longer than the others. Fore wings with several whitish hyaline marks of various shape, these form three very irregular and incomplete bands; apical band of only two marks. Hind wings blackish; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. Morty.

389. *CÆLIDIA INSCRIPTA*. *Fœm.* Picea, vertice testaceo subcarinato punctis duobus anticis nigris, fronte facieque vittis duabus flavis supra macularibus, scuto flavo-punctato, scutello vittis duabus latis e punctis fulvis, pedibus anterioribus testaceis, alis anticis cupreo-piceis lituris plurimis albidis ex parte angulatis.

Female. Piccous. Head narrower than the thorax; vertex testaceous, flat, hardly broader than long, with a slight keel, and with a black point on each side near the fore border; front and face flat, with two yellow stripes, which are macular on the upper part of the front. Scutum with very numerous tawny points; scutellum with two broad stripes of tawny points. Fore legs testaceous, stout; hind legs long, piceous. Fore wings cupreous-tinged, with many whitish hyaline marks, some of which are angular or cuneiform; a whitish costal patch at two-thirds of the length. Hind wings with black veins. Length of the body $3\frac{1}{2}$ -4 lines, of the wings 7-8 lines.

Hab. Aru; New Guinea.

390. *CÆLIDIA LUTEIFASCIA*. *Fœm.* Rufescenti-fulva, robusta, capite pectoreque pallide flavescentibus, fronte plano bicarinato, abdomine ochraceo apice nigricante, pedibus pallide fulvis, alis anticis lituris paucis subpallidioribus guttis paucis fuscis fascia submarginali nigricante subinterrupta, alis posticis fuscis.

Female. Reddish tawny, stout. Head pale yellowish; vertex not broader than long, narrower towards the thorax; front flat, not

broader than long, with a very slight keel on each side. Pectus pale yellowish. Abdomen ochraceous, blackish towards the tip. Legs pale tawny. Fore wings with a few slightly paler marks; a few brown dots, and a blackish nearly interrupted submarginal band. Hind wings brown; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. Mysol.

391. *CÆLIDIA RUFIVENA*. *Fœm.* Picea, lata, capite subtus flavo-bivittato, vertice testaceo antice piceo, fronte subfusiformi subcarinata, thoracis lateribus fulvis, scuto fulvo-biplagiato, abdominis segmentis flavo marginatis, tarsis posticis basi pedibusque anterioribus flavis, alis anticis cupreo-nigris rufo venosis albido guttatis, alis posticis nigricantibus.

Female. Piccous, broad, shining, nearly smooth. Head nearly as broad as the thorax; vertex testaceous, piceous in front, not broader than long; front nearly fusiform, with a slight keel; a pale yellow stripe on each side of the face. Thorax with tawny borders; scutum with a large tawny patch on each side. Hind borders of the abdominal segments pale yellow. Hind tarsi at the base, and anterior legs pale yellow. Fore wings cupreous-black, with a few whitish hyaline dots in the disk; veins red. Hind wings blackish; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 5 lines.

Hab. Gilolo; Sula.

392. *CÆLIDIA ALBIPES*. *Fœm.* Nigra, capite angusto, vertice fascia incisa pallide flavescente, fronte elongata, pedibus pallide flavis, alis anticis piceis.

Female. Black. Head a little narrower than the thorax; vertex a little longer than broad, with a pale-yellowish notched band; front elongate. Rostrum and legs pale yellow; the latter long and slender. Fore wings piceous, shining. Length of the body $2\frac{1}{4}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. New Guinea.

393. *CÆLIDIA SUBAPICALIS*. *Mas.* Nigra, elliptica, nitens, capite fascia flava, pectore pallide flavo, abdomine piceo, pedibus testaceis, femoribus anticis rufis, alis anticis linea flava subobliqua.

Male. Black, elliptical, shining, very finely punctured. Head with a narrow yellow band in front of the eyes; this band is much dilated beneath. Pectus pale yellow. Abdomen piceous. Legs testaceous; fore femora bright red. Fore wings with a yellow line, which joins the costa at the base, and thence diverges slightly from it to the end of the hind border. Length of the body $1\frac{3}{4}$ line, of the wings $3\frac{1}{2}$ lines.

Hab. Mysol.

394. *CÆLIDIA UNIFASCIATA*. *Mas.* Testacea, abdomine apicem versus nigricante segmentis rufescente marginatis, tibiis posticis apice nigricantibus, alis anticis cinereis fascia subapicali nigricante, alis posticis obscure nigricantibus.

Male. Testaceous. Head a little narrower than the thorax; vertex a little longer than broad, wider towards the fore border; front flat. Abdomen blackish towards the tips; hind borders of the segments reddish. Legs rather slender; hind tibiæ with blackish tips. Fore wings cinereous, with an irregular blackish subapical band. Hind wings dark brown; veins black. Length of the body $2\frac{3}{4}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. Mysol.

Section 2.

The following species differ from those of the first section in the shape of the head, which is narrower and more conical:—

395. *CÆLIDIA LEUCOMELANA*. Nigra, gracilis, vertice longo fascia incisa alba, fronte strigis duabus albis, facie albo late marginata, antennis pedibus thoracis fascia scutellique apice albis, alis anticis fasciis tribus guttularibus margineque postico albis, alis posticis striga postica albida.

Black, slender. Vertex much longer than broad, its hind border with a white band, which is notched on its fore side; front with a white streak on each side adjoining the eye; face broadly bordered with white. Rostrum, antennæ, and legs white. Thorax with a white band; scutellum with a white tip. Femora striped with piceous. Fore wings with three bands, each composed of a white costal spot and of several white dots in the disk; hind border white. Hind wings with a whitish streak near the hind border. Length of the body 2 lines, of the wings 4 lines.

Hab. Mysol.

396. *CÆLIDIA GUTTATA*. Alba, capite thorace angustiore, vertice subcarinato, thorace nigro, scutello parvo albido-marginato, alis nigro venosis, alis anticis obscure fuscis apices versus pallidioribus semihyalinis maculis tribus margineque postico albis, alis posticis fuscis.

White. Head rather narrower than the thorax; vertex longer than broad, with a slight keel. Thorax black; scutellum small, whitish-bordered. Wings with black veins. Fore wings dark brown, paler brown and semihyaline about the tips, with three white spots; first and second spots costal; third on the hind border opposite the first; hind border white. Hind wings brown. Length of the body $2\frac{1}{2}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. Mysol.

397. *CÆLIDIA TERMINALIS*. *Mas et Fæm.* Nigra, capite pectore pedibusque pallide flavis, vertice carinato, abdominis segmentis flavo pallido marginatis, tibiis tarsisque posticis piceis, illis basi flavis, alis anticis cupreo-nigris apice albidis.

Male and Female. Black. Head, pectus, and legs pale yellow. Head a little narrower than the thorax; vertex a little longer than broad, with a slight keel, and with slightly prominent borders; front flat, oblique. Abdomen with two clavate apical appendages; hind borders of the segments pale yellow. Legs long, slender; hind tibiæ for more than half the length from the tips and hind tarsi piceous. Fore wings cupreous-black, with whitish tips. Length of the body 2-2½ lines, of the wings 4-5 lines.

Hab. New Guinea; Mysol.

398. *CÆLIDIA SEXGUTTATA*. *Fæm.* Flavescenti-alba, vertice fronteque elongatis, vertice carinato, fronte plano, thorace abdominis dorso alisque anticis cupreo-nigris, abdominis segmentis albo marginatis, alis anticis maculis tribus apiceque albis, alis posticis fuscis.

Female. Yellowish white. Head narrower than the thorax; vertex a little longer than broad, with a slight keel, and with slightly prominent borders; front flat, nearly twice as long as broad. Antennæ with very slender setæ, which are nearly as long as the body. Thorax, abdomen above, and fore wings cupreous-black. Abdomen with a narrow white band on the hind border of each segment; underside with irregular and interrupted brown bands. Fore wings with three white spots and with white tips; first spot costal at a little before half the length; second on the hind border, opposite the first; third costal, at three-fourths of the length. Hind wings brown; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. New Guinea.

399. *CÆLIDIA DORSIMACULA*. Pallidissime flava, alis anticis albidohyalinis cupreo suffusis vitta costali fascia subapicali arcuata lituraque postmedia saturate cupreis maculis tribus albis, 2^a-3^aque costalibus, alis posticis fusciscenti-hyalinis.

Very pale yellow. Legs long, slender. Fore wings whitish, hyaline, mostly tinged with cupreous; costal stripe, subapical curved band, and an irregular mark in the postmedial disk dark cupreous; a white spot on the hind border near the base, and two on the costa; first costal spot on the middle; second near the tip, larger than the first, but smaller than the hind spot, which has a small dark cupreous mark at each end. Hind wings brownish, hyaline; veins black. Length of the body 2 lines, of the wings 5½ lines.

Hab. New Guinea.

Described from an injured specimen.

400. *CÆLIDIA ROSEIFASCIA*. *Fœm.* Pallide flavescens, gracilis, capite conico, vertice subcarinato fascia antea rosea, scuto vitta fulva postice dilatata, abdominis segmentis piceo marginatis, pedibus longis, alis anticis cupreis albido maculatis, strigis tribus costalibus fasciaque submarginali piceis, alis posticis fusciscentibus.

Female. Pale yellowish, slender. Head conical, nearly as broad as the thorax; vertex slightly keeled, rather longer than broad, with a rosy band on the fore border; front flat, oblique. Scutum with a tawny stripe, which is dilated hindward and occupies the whole of the hind border. Abdomen with a piceous band on the hind border of each segment. Legs long, slender. Fore wings cupreous, with several whitish hyaline spots, with three piceous costal streaks, and with a piceous submarginal band; veins black. Hind wings brownish, with black veins. Length of the body $2\frac{1}{2}$ -3 lines, of the wings 5-6 lines.

Hab. Morty; Mysol.

401. *CÆLIDIA SELECTA*. *Mas et Fœm.* Ferruginea, gracilis, capite conico, vertice pallide flavescente subcarinato, fronte longa pallide flavescente, scuto maculis duabus pallide flavis, scutello pallide flavo strigis duabus ferrugineis, pectore ventre pedibusque pallide flavis, alis anticis albo guttatis fascia apicali picea interrupta, alis posticis fuscis.

Male and Female. Ferruginous, slender. Head conical; vertex pale yellowish, slightly keeled, a little longer than broad, with an impression on each side; front pale yellowish, long, flat, oblique. Scutum with a pale yellow spot on each side; scutellum pale yellow, with a ferruginous streak on each side. Pectus, abdomen beneath, and legs pale yellow. Fore wings with several white dots, and with an interrupted piceous apical band. Hind wings brown; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 5 lines.

Hab. Sula; Mysol.

402. *CÆLIDIA MACULICEPS*. *Mas.* Testacea, gracilis, vertice brevissimo linea transversa ochracea interrupta, fronte maculis quatuor ochraceis, facie ochraceo fasciata, abdomine piceo segmentorum marginibus posticis fulvis, alis anticis cinereo-hyalinis.

Male. Testaceous, slender, shining. Vertex extremely short, with an interrupted transverse orange line; front with four orange spots; face with an orange band. Abdomen piceous; hind borders of the segments tawny. Wings hyaline. Fore wings cinereous; veins mostly black. Length of the body $2\frac{3}{4}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. Batchian.

403. *CÆLIDIA TESTACEA*. *Fœm.* Pallide flava, vertice ex parte ochraceo, facie lateribus albidis, thorace et abdomine ochraceis illo

flavo-vario, pectore pedibusque albidis, alis albido-hyalinis, alis anticis ochraceo venosis margine postico nigro.

Female. Pale yellow. Vertex partly ochraceous; face whitish on each side. Ocelli black. Thorax mostly ochraceous. Pectus and legs whitish. Abdomen ochraceous above. Wings whitish, hyaline. Fore wings with ochraceous veins; hind border black, except towards the tip. Length of the body $2\frac{1}{4}$ lines, of the wings 6 lines.

Hab. Mysol.

404. *CÆLIDIA AURULENTA.* *Fœm.* Pallide flava, gracilis, pedibus longis, alis anticis luteis vitta ramosa fasciaque subapicali nigris, alis posticis nigricanti-cinereis.

Female. Pale yellow, slender, smooth. Legs long, slender. Fore wings luteous, with a black irregular ramose stripe, which is costal near the base and terminates in a black subapical band. Hind wings blackish cinereous; veins black. Length of the body 3 lines, of the wings 6 lines.

Hab. Morty.

Genus BYTHOSCOPIUS, *Germar.*

405. *BYTHOSCOPIUS FERRUGINEUS, Walk. Cat. Hom. iii. p. 865.*

Hab. Aru; Mysol; inhabits also Java.

406. *BYTHOSCOPIUS ANTECEDENS.* *Fœm.* Niger, vertice brevissimo pallide flavo, fronte transverse rugoso, faciei lateribus ventre pedibusque pallide flavis, thorace vittis duabus anticis pallide flavis, alis anticis æneo-fuscis, alis posticis fusciscenti-cinereis.

Female. Black. Head as broad as the thorax; vertex pale yellow, very short, much arched; front transversely ridged; face pale yellow on each side. Rostrum, antennæ, abdomen beneath, and legs pale yellow. Thorax with a pale yellow stripe along each side in front. Legs long, slender; hind tibiæ beset with spines along the whole length. Wings semihyaline. Fore wings æneous brown. Hind wings brownish cinereous; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. Morty.

Var. β . *Fœm.* Cupreo-niger, vertice pallide flavo, faciei lateribus segmentorum abdominalium marginibus pedibusque flavis, macula ventrali basali cuprea, alis anticis cupreis, alis posticis nigricantibus.

Female. Cupreous black; vertex pale yellow. Face on each side, rostrum, legs, and hind borders of the abdominal segments yellow. Abdomen with a pale yellow ventral spot at the base. Fore wings cupreous. Hind wings blackish. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. New Guinea.

407. *BYTHOSCOPIUS POLYGRAMMUS*. *Fœm.* Pallide testaceus, fronte facieque transverse striatis nigroque strigatis, scuto transverse striato nigro-consperso, scutello lituris nigris ramosis, pectore plagis nigris lateralibus, abdomine ochraceo fasciis apiceque nigris, pedibus anticis piceis, femoribus posterioribus tibiisque intermediis piceo vittatis, alis anticis cupreo-albidis cupreo trifasciatis, alis posticis cinereis.

Female. Pale testaceous. Head as broad as the thorax; vertex extremely short; front and face transversely striated and black-streaked, these marks interrupted on the face. Scutum mottled with black, finely and transversely striated, conical in front; scutellum with some ramose black marks. Pectus with two black patches on each side. Abdomen with irregular black bands, mostly black towards the tip; dorsal segments ochraceous. Fore legs piceous; posterior femora and middle tibiæ striped with piceous. Fore wings cupreous whitish, hyaline, with three broad irregular cupreous bands; second and third bands united on the hind border, third marginal. Hind wings cinereous, hyaline; veins black. Length of the body 5 lines, of the wings 11-12 lines.

Hab. New Guinea; Morty.

408. *BYTHOSCOPIUS BISTRIGA*. *Mas et Fœm.* Pallide luteus, capite subcarinato vertice brevi obliquo, scuto strigis duabus lateralibus nigris, scutelli lateribus nigris, abdomine piceo basi luteo, tibiis posticis ferrugineis, alis cinereo-hyalinis, alis anticis cupreo nitentibus striga subcostali albida vittis duabus nigricanti-purpureis venis fulvis piceo variis.

Male and Female. Pale luteous. Head with a slight keel; vertex oblique, four times as broad as long. Scutum much arched, with a short black streak on each side. Scutellum black along each side. Abdomen piceous above, except towards the base. Hind tibiæ ferruginous above. Wings cinereous, hyaline. Fore wings with bright cupreous reflections, with a whitish subcostal streak, and with two blackish purple stripes; first stripe costal, extending along half the length; second shorter, along the hind border; veins tawny, partly piceous. Hind wings with black veins. Length of the body 4-4½ lines, of the wings 9-10 lines.

Hab. Mysol; New Guinea.

409. *BYTHOSCOPIUS CONCOLOR*. Rufescenti-fulvus, robustus, capite thoraceque flavescente conspersis, vertice brevissimo, fronte transversa, scuto transverse ruguloso, pectore pallide luteo, pedibus fulvis, alis posticis fuscis.

Reddish tawny, stout. Head and thorax with dull yellowish speckles; head as broad as the thorax, vertex extremely short, front broader than long. Scutum transversely and very minutely rugulose. Pectus pale

luteous. Legs tawny. Fore wings shining. Hind wings brown; veins black. Length of the body 3 lines, of the wings 7 lines.

Hab. Mysol.

410. *BYTHOSCOPIUS ÆQUALIS*. *Mas et Fœm.* Testaceus, robustus, capite thoraceque transverse striatis, scuti margine postico viridi, abdominis segmentis luteo marginatis, pedibus validis, alis anticis semihyalinis, alis posticis hyalinis pallido venosis.

Male and Female. Testaceous, stout. Head and thorax transversely and finely striated; head a little narrower than the thorax, vertex very short, front more than twice as broad as long. Scutum green along the hind border. Abdomen with a narrow luteous band on the hind border of each segment. Legs robust; hind tibiæ with stout spines. Fore wings semihyaline, punctured along the veins. Hind wings hyaline; veins pale. Length of the body $3\frac{1}{2}$ –4 lines, of the wings 7–8 lines.

Hab. New Guinea; Mysol.

411. *BYTHOSCOPIUS NASIVITTA*. *Fœm.* Pallide luteus, fronte facieque subcarinatis, abdomine strigis duabus lateralibus nigris, alis anticis luridis strigis duabus basalibus nigris disco antemedio cinereo margine apicali nigricante, alis posticis lurido-cinereis apice fuscescentibus.

Female. Pale luteous. Front and face with a slight keel. Abdomen with a black streak along the middle part of each side. Oviduct not extending beyond the fore wings. Fore wings lurid, cinereous in the disk before the middle, with two black streaks proceeding from the base; first streak costal, longer than the other, which is on the hind border; apical border blackish. Hind wings lurid cinereous, brownish at the tips. Length of the body 5–6 lines, of the wings 9–12 lines.

Hab. Waigiou; Mysol.

412. *BYTHOSCOPIUS BIMARGINATUS*. *Fœm.* Glaucio-niger, vertice testaceo, fronte apud verticem transverse striata, facie testacea disco nigro, scuto transverse striato fascia arcuata margineque postico testaceis, scutelli lateribus apicem versus testaceis, abdomine segmentorum marginibus posticis ventre pedibusque testaceis, alis anticis cupreis, alis posticis nigricantibus.

Female. Black, with a glaucous tinge. Vertex testaceous, extremely short; front punctured, transversely striated towards the vertex; face testaceous, with a black disk. Antennæ testaceous. Scutum transversely striated, with a narrow testaceous arched band near its fore border, and with a testaceous hind border; scutellum punctured, with a transverse furrow, testaceous on each side towards the tip. Abdomen with the hind borders of the segments and the underside testaceous. Legs testaceous. Fore wings cupreous; veins black.

Hind wings blackish. Length of the body 5 lines, of the wings 10 lines.

Hab. Batchian; Celebes; Ceram; Gilolo; Morty; Sula.

413. *BYTHOSCOPIUS DIMIDIATUS*. *Fœm.* Testaceus, fronte nigricante, scuto transverse striato fusco-consperso, scutello transverse sulcato antice nigricanti-consperso, femoribus anterioribus pedibusque posticis nigris, alis anticis luridis apice piceis, alis posticis cinereo-hyalinis.

Female. Testaceous. Head as broad as the thorax; vertex extremely short; front blackish. Scutum finely and transversely striated, minutely mottled with brown; scutellum with a transverse furrow, in front of which it is mottled with blackish. Anterior femora and hind legs black. Fore wings lurid, shining, piceous towards the tips. Hind wings cinereous, hyaline. Length of the body $4\frac{1}{2}$ lines, of the wings 9 lines.

Hab. Dorci.

414. *BYTHOSCOPIUS LUTEATUS*. *Fœm.* Luteus, capite antice nigro-fasciato, fronte transverse striata fascia arcuata nigra, facie nigro-biguttata, scuto transverse striato, pectore nigro-bimaculato, abdominis segmentis nigro fasciatis, alis anticis luridis vitta costali abbreviata cupreo-nigricante venis nigricantibus, alis posticis fusciscentibus.

Female. Luteous. Head pale luteous, as broad as the thorax, with a narrow black band along the fore border of the vertex, which is very short; front transversely striated, with a narrow curved black band; face with a black dot on each side. Scutum finely and transversely striated; scutellum minutely punctured. Pectus and legs pale luteous, the former with a black spot on each side. Abdomen with a black band on the fore border of each segment. Fore wings lurid, with a cupreous blackish costal stripe, which does not extend to the tip; veins blackish. Hind wings brownish, hyaline; veins black. Length of the body 5 lines, of the wings 10 lines.

Hab. Sula.

415. *BYTHOSCOPIUS COLLIGATUS*. *Fœm.* Pallide flavus, vertice brevissimo, fronte bicarinata transverse unicarinata fascia vittisque duabus anterioribus rufis, facie pectoreque purpureo-nigris flavo marginatis, abdomine piceo segmentis flavo marginatis, femoribus tibiisque posticis purpureo-nigris, alis aurato-cinereis, alis anticis vitta costali lata purpurea.

Female. Pale yellow. Head as broad as the thorax; vertex very short; front with a red band, and with two anterior red stripes, with two slight keels, between which there is a transverse keel; face and pectus purplish black, the compartments bordered with pale yellow. Scutum transversely striated, conical in front; scutellum minutely

punctured, with a slight transverse furrow. Abdomen piceous; hind borders of the segments pale yellow. Hind femora and hind tibiæ, except the apical part of the latter, purplish black. Wings cinereous, hyaline, with gilded reflections. Fore wings with a broad purple stripe, which extends to full three-fourths of the length, and occupies the costa to more than two-thirds of the length. Length of the body 3 lines, of the wings 7 lines.

Hab. New Guinea.

416. *BYTHOSCOPIUS UNICOLOR*. *Mas.* Pallide lutens, robustus, fronte punctata, facie brevi, tibiis tarsisque anterioribus piceis, tibiis tarsisque posticis rufescentibus, alis anticis gutta subapicali apiceque fuscis, alis posticis hyalinis.

Male. Pale luteous, stout. Head nearly as broad as the thorax; vertex extremely short; front minutely punctured, more than twice as broad as long; face short, broad. Legs stout; anterior tibiæ and tarsi piceous; hind tibiæ and hind tarsi reddish, the former armed with very stout black spines. Fore wings with brown tips and with a small brown dot on the hind border near the tip. Hind wings pellucid; veins pale. Length of the body 2 lines, of the wings 4 lines.

Hab. Celebes.

417. *BYTHOSCOPIUS POLITUS*. *Fœm.* Rufus, robustus, capite fascia antica picea flavo lineata fascia frontali late interrupta, fronte conica plana, facie carinata, scuto transverse striato, pectore flavo maculis duabus rufescentibus ex parte piceis, alis anticis dimidio apicali margineque postico piceis gutta costali alba, alis posticis nigricantibus.

Female. Red, stout, shining. Head as broad as the thorax; vertex arched, about thrice as broad as long; a piceous band on the fore border of the vertex and on the adjoining part of the front, including a yellow line; front conical, flat, minutely punctured, interrupting a yellow band; face keeled. Scutum finely and transversely striated; scutellum very minutely punctured, with the usual transverse furrow. Pectus yellow; a reddish, partly piceous spot on each side. Fore wings piceous on half the length from the tips and along the hind border; a white dot on the middle of the costa. Hind wings blackish. Length of the body 4 lines, of the wings 8 lines.

Hab. Morty.

418. *BYTHOSCOPIUS FLAVIBASIS*. *Fœm.* Pallide testaceus, vertice margine postico nigro fascia antica nigra arcuata rugulosa, fronte vitta nigra fusiformi, alis cinereis hyalinis nigro venosis, alis anticis apud costam nigricantibus striga postica basali lata pallide flava.

Female. Pale testaceous. Head as broad as the thorax; vertex arched, extremely short, black along the hind border; a black curved rugulose band between the eyes; front flat, with a fusiform black stripe.

Wings cinereous, hyaline; veins black. Fore wings diffusely blackish along the costa; a broad pale yellow streak along the basal part of the hind border. Length of the body 4 lines, of the wings 9 lines.

Hab. Aru.

419. *BYTHOSCOPIUS DIAPHANUS*. *Fam.* Testaceus, robustus, thorace transverse striato, alis diaphanis venis nigris basi testaceis, alis anticis maculis submarginalibus fasciaque marginali fuscis.

Female. Testaceous, stout. Head as broad as the thorax; vertex arched, extremely short; front flat, slightly keeled, transversely striated on each side. Thorax finely and transversely striated. Wings pellucid; veins black, testaceous towards the base. Fore wings with a brown spot in each of the marginal areolets and with a brown marginal band. Length of the body $4\frac{1}{2}$ lines, of the wings 10 lines.

Hab. New Guinea.

420. *BYTHOSCOPIUS CUPREIPENNIS*. *Fam.* Niger, transverse striatus, abdominis segmentis flavo marginatis, alis anticis cupreis, alis posticis nigricanti-cinereis.

Female. Black. Head and thorax transversely striated. Head as broad as the thorax; vertex extremely short; front and face flat. Hind borders of the abdominal segments yellow. Wings with black veins. Fore wings cupreous. Hind wings blackish cinereous. Length of the body 4 lines, of the wings 9 lines.

Hab. New Guinea.

421. *BYTHOSCOPIUS SCABRIFRONS*. *Mas.* Flavus, capite pectore abdomine pedibusque posticis nigris, vertice flavo margine postico nigro, fronte scabra, scutello testaceo, alis fuscis, alis anticis apud costam obscurioribus.

Male. Yellow. Head (except the vertex) pectus, abdomen, and hind legs black. Vertex arched, extremely short, black along the hind border; front flat, scabrous, transversely striated on each side. Scutellum testaceous. Wings brown, hyaline; veins black. Fore wings darker brown along the costa. Length of the body 3 lines, of the wings 9 lines.

Hab. New Guinea.

422. *BYTHOSCOPIUS BADIUS*. *Fam.* Piceus, capite pectore abdomine basi pedibusque testaceis, capite fascia lata picea, alis posticis nigricantibus.

Female. Piceous. Head as broad as the thorax; vertex arched, extremely short; underside (except a broad band between the eyes), pectus, abdomen at the base, and legs testaceous. Hind wings

blackish; veins black. Length of the body 4 lines, of the wings 8 lines.

Hab. New Guinea.

423. *BYTHOSCOPIUS SEMIVENOSUS*. *Fœm.* Testaceus, vertice brevissimo, fronte punctata carina transversa arcuata, scuto transverse striato, scutello punctato, alis anticis luridis nigro venosis, alis posticis fusciscentibus.

Female. Testaceous. Head as broad as the thorax; vertex extremely short; front minutely punctured, with a transverse curved keel. Scutum finely and transversely striated, except near its fore border, where it is minutely punctured in the middle, and is smooth on each side; scutellum finely punctured. Fore wings lurid; veins mostly black. Hind wings brownish; veins black. Length of the body 4 lines, of the wings 8 lines.

Hab. Tondano, Celebes.

424. *BYTHOSCOPIUS IMPRESSUS*. *Mas.* Testaceus, capite thorace latiore, pectore piceo, alis anticis basi subæneis apice cinereis, alis posticis cinereis.

Male. Testaceous. Head a little broader than the thorax. Eyes prominent. Pectus mostly piceous. Fore wings shining, semihyaline, cinereous at the tips, with an æneous tinge towards the base. Hind wings cinereous. Length of the body $4\frac{1}{2}$ lines, of the wings $5\frac{1}{2}$ lines.

Hab. Batchian.

Genus *IASSUS*, *Fabr.*

425. *IASSUS NITIDULUS*. *Fœm.* Testaceus, robustus, vertice transverso obliquo lineis duabus luteis maculis duabus nigro punctatis vitta margineque postico albidis plagis duabus nigris, facie plaga nigra, scuto lituris quatuor anticis fuscis, scutello maculis duabus nigris trigonis, abdomine nigro maculis duabus et segmentorum marginibus luteis, femoribus piceo strigatis, tibiis tarsisque apice piceis, alis lurido-hyalinis, alis anticis apud apices fusco marginatis linea costali lutea stigmatate longo nigricante.

Female. Testaceous, stout. Head as broad as the thorax; vertex oblique, thrice as broad as long, with a luteous line along each side, with a whitish spot on each side, with a whitish stripe and a whitish hind border, each spot including a black point; a black patch on each side of the front, and a third on the face. Rostrum spatulate. Thorax with two small brown marks on each side of the fore border; scutellum with a triangular black spot on each side. Abdomen black, with a large luteous spot on each side; hind borders of the segments luteous. Femora streaked with piceous; tibiæ and tarsi with piceous tips. Wings lurid, hyaline. Fore wings brown-bor-

dered about the tips; a luteous line extending along the costa from the base and terminating at half the length in an elongated blackish stigma; veins brown, testaceous towards the base. Hind wings with black veins. Length of the body $1\frac{1}{2}$ line, of the wings 4 lines.

Hab. Mysol.

426. *IASSUS LATICEPS*. *Fœm.* Testaceus, robustus, vertice brevi, fronte ferruginea maculis duabus lateralibus nigricantibus, alis lurido-cinereis fulvo venosis, alis anticis vitta costali lutea strigis duabus costalibus nigris.

Female. Testaceous, stout. Head as broad as the thorax; vertex four times as broad as long; front ferruginous, with a blackish spot on each side in front towards the face. Wings lurid-cinereous, shining; veins tawny; costa of the fore wings with a luteous stripe, which joins a longitudinal black streak; another costal streak like the first extends to the tip. Length of the body $1\frac{3}{4}$ line, of the wings 4 lines.

Hab. Celebes.

427. *IASSUS LITURICEPS*. *Fœm.* Pallide testaceus, capite thoraceque nigro conspersis, vertice brevi, fronte plana, antennis thorace multo longioribus, alis diaphanis nigro venosis.

Female. Pale testaceous. Head and thorax thickly and transversely mottled with black; head nearly as broad as the thorax, vertex short, front flat. Antennæ much longer than the thorax. Wings pellucid; veins black. Fore wings with the veins towards the hind border pale. Length of the body 3 lines, of the wings 8 lines.

Hab. Sula.

428. *IASSUS COSTALIS*. *Fœm.* Cervinus, vertice brevi albido lituris cervinis et nigris, fronte plana, scuto linea transversa obscuriore arcuata albido guttata, scutello strigis duabus fuscis arcuatis, alis anticis subauratis maculis tribus costalibus magnis diaphanis nigro marginatis guttis tribus posticis nigris, alis posticis fuscis.

Female. Fawn-colour. Vertex whitish, four times as broad as long, with some fawn-coloured marks, in front of which there are four angular black marks; front flat, obliquely retracted, narrower in front, not longer than broad. Scutum with a darker curved whitish-dotted transverse line near the fore border; scutellum with a curved brown streak on each side. Hind tibiæ with black dots at the base of the spines; joints of the hind tarsi with black tips. Fore wings slightly gilded, with three large pellucid irregularly black-bordered costal spots; three black dots on the hind border; veins piceous towards the tip. Hind wings brown; veins black. Length of the body $2\frac{3}{4}$ lines, of the wings 6 lines.

Hab. Morty.

429. *IASSUS LUCIDICOSTA*. *Mas.* Testaceus, glaber, scuto fascia an-

tica nigra subarcuata, scutelli margine antico nigro, pedibus pallide flavis, alis anticis cupreo-fuscescentibus apud costam pellucidis, alis posticis fuscis.

Male. Testaceous, smooth, shining, pale yellow beneath. Head as broad as the thorax; vertex arched, four times as broad as long; front flat, oblique. Scutum with a black slightly curved band near the fore border; scutellum black along the fore border. Legs pale yellow. Fore wings brownish, with bright cupreous reflections, mostly colourless and hyaline along the costa. Hind wings brown; veins black. Length of the body $2\frac{3}{4}$ lines, of the wings 6 lines.

Hab. New Guinea.

430. *IASSUS CORIACEUS.* Testaceous, latus, capite thoraceque transverse striatis, pedibus robustis, alis anticis semihyalinis, alis posticis diaphanis pallido venosis.

Testaceous, broad, shining. Head and thorax transversely and very finely striated; head as broad as the thorax, vertex very short; front flat, short, oblique. Legs short, stout. Fore wings semihyaline; veins few. Hind wings pellucid; veins pale. Length of the body $1\frac{3}{4}$ line, of the wings 4 lines.

Hab. Mysol.

431. *IASSUS PUNCTICOSTA.* *Mas.* Testaceous, robustus, capite thoraceque nigro conspersis, thoracis lateribus pallide flavis, scutello maculis duabus pallide rufis, abdomine nigro fascia pallide flava segmentis testaceo pallido marginatis, pedibus pallide flavis fulvo fasciatis, alis cinereis nigro venosis, alis anticis æneo nitentibus vitta costali pallide flava strigas nigras includente venis albo punctatis.

Male. Testaceous, stout. Head and thorax thickly mottled with black; head as broad as the thorax, vertex very short, front flat. Rostrum black towards the base. Thorax pale yellow on each side; scutellum with a pale red spot on each side in front. Pectus pale yellow on each side. Abdomen black; hind borders of the segments pale testaceous; a pale yellow dorsal band. Legs pale yellow, with tawny bands. Wings cinereous; veins black. Fore wings with æneous reflections; costa, except towards the tip, pale yellow, with black oblique streaks; some white points on the veins. Length of the body 2 lines, of the wings 4 lines.

Hab. Morty.

432. *IASSUS LATIFRONS.* *Mas.* Testaceous, latus, capite thoraceque fusco variis, alis cinereis hyalinis, alis anticis latis costa alba nigro guttata stigmatibusque nigris.

Male. Testaceous, broad. Head and thorax mottled with brown; head a little broader than the thorax, vertex very short; front slightly convex, broader than long. Legs moderately long and slen-

der. Wings cinereous, hyaline. Fore wings broad; costa white, with some black dots; stigma and veins black. Length of the body $1\frac{3}{4}$ line, of the wings 4 lines.

Hab. Morty.

433. *IASSUS*? *ANGULIFER*. *Fœm.* Flavus, latus, vertice brevi fascia antica nigra, fronte facieque vittis duabus nigris antice connexis, scuto fasciis duabus nigris, scutello nigro strigis duabus flavis, abdomine nigro vittis duabus abbreviatis ventreque flavis, alis anticis hyalinis basi flavis nigro trivittatis, alis posticis nigricanti-cinereis.

Female. Bright yellow, broad, smooth. Head a little broader than the thorax, four times as broad as long, with a black band on the fore border; front and face with two black converging stripes, which are united on the face. Scutum with two black bands, one on the fore border, the other very near the hind border; scutellum black, with two longitudinal yellow streaks. Abdomen black, with a short yellow stripe on each side above; underside yellow, black towards the tip. Wings hyaline; veins black. Fore wings yellow towards the base, with three black stripes; first stripe costal for half the length from the base, then diverging and extending to the tip; second joining the first at the base; third shorter, near the hind border. Hind wings blackish cinereous. Length of the body 2 lines, of the wings 4 lines.

Hab. Mysol.

GENUS *SELENOCEPHALUS*, *Germar.*

434. *SELENOCEPHALUS MARMOREUS*. *Mas et Fœm.* Testaceus, vertice guttis quatuor nigris duabusque rufis lineolaque fusca, fronte facieque nigris, scuto linea transversa e guttis sex nigris, scutello nigro-quadrigitato, pectore ventre pedibusque albidis, tibiis tarsisque posticis apice nigris, alis anticis æneo-testaceis nigricante lituratis maculis duabus costalibus unaque apicali albidis, alis posticis fuscescentibus.

Male and Female. Testaceous. Head as broad as the thorax; vertex arched, twice as broad as long, with a transverse furrow and a short hinder brown line, with a black and two red dots, one on each side, on the hind part, and with three black dots in front; front and face black. Scutum twice as broad as long, rounded in front, with a transverse suture, which is accompanied by three black dots on each side; scutellum with two black marginal dots on each side. Pectus, abdomen beneath, and legs whitish. Hind tibiæ and hind tarsi with black tips, the latter with a black band. Fore wings æneous-tinged, with blackish veins, and with various small blackish marks in the areolet; three whitish spots, of which two are costal, and the third

apical. Hind wings brownish; veins black. Length of the body 2 lines, of the wings 4 lines.

Hab. Morty; New Guinea; Sula.

435. *SELENOCEPHALUS NOTULUS*. Testaceus, robustus, vertice fascia lutea maculis duabus nigris, fronte nigro-fasciata, thorace nigro-nubuloso, pedibus nigris tibiis tarsisque testaceis nigro fasciatis, alis semihyalinis nigro venosis, alis anticis albidis venis nigro ex parte marginatis, alis posticis fuscis.

Testaceous, stout. Head as broad as the thorax; vertex arched, about thrice as broad as long, with a luteous band, and with two black spots on the fore border; front flat, oblique, with a black band next the vertex. Thorax mottled with black. Legs slender, with black bands; coxæ and femora black, the latter testaceous towards the tips. Wings semihyaline. Fore wings whitish; veins stout, partly bordered with black. Hind wings brown; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 4 lines.

Hab. Mysol.

Genus NORSIA.

Corpus gracile. *Caput* thorace non angustius; vertex arcuatus, transversus; frons plana, retracta. *Antennarum* seta corpore paullo brevior. *Scutum* valde arcuatum.

Body slender. Head as broad as the thorax; vertex arched, nearly twice as broad as long; front flat, nearly horizontal, beneath the vertex. Seta of the antennæ rather shorter than the body. Scutum much arched.

436. *NORSIA FLAVIDORSUM*. Pallide flava, capite fascia antica nigra lineam flavam transversam includente, thorace vittis duabus cupreis, alis cinereis hyalinis, alis anticis cupreo nitentibus vitta costali fusca strigam pellucidam includente.

Pale yellow, pale testaceous beneath; vertex with a black band along the fore border containing a transverse yellow line. Thorax with a cupreous stripe along each side. Wings cinereous, hyaline. Fore wings with bright cupreous reflections; a brown costal stripe, which is interrupted at two-thirds of the length by a pellucid streak, and extends round the tip; veins mostly black. Hind wings with black veins. Length of the body 2 lines, of the wings $4\frac{1}{2}$ lines.

Hab. Mysol.

437. *NORSIA FULVESCENS*. Pallide fulva, vertice carinato, pedibus posticis longiusculis, tibiis posticis bispinosis, alis diaphanis pallido venosis, alis anticis testacco subinctis linea subapicali e venis transversis.

Pale tawny, moderately broad. Head rather narrower than the thorax, with slightly prominent borders; vertex keeled, nearly twice as broad as long; front very flat, nearly horizontal, beneath the vertex. Legs slender; hind legs rather long; hind tibiæ with two spines. Wings hyaline, with pale veins. Fore wings with a slight testaceous tinge; an irregular subapical line of transverse veins. Length of the body 2 lines, of the wings 5 lines.

Hab. Mysol.

GENUS SOPHONIA.

Fœm. *Corpus* gracillimum. *Caput* depressum, longiconicum.

Female. Body very slender. Head flat, elongate conical.

The shape of the head will distinguish *Norsia* and *Sophonia* from the other genera of *Iassides*.

438. *SOPHONIA RUFITELUM.* *Fœm.* Albida, vertice lineis tribus marginibusque nigris, scuto lineis quinque marginibusque nigris, scutello abdomineque ochraceo-rufis, alis anticis semihyalinis vittis duabus ochraceo-rufis punctis lineis duabus transversis linea brevi apice dilatata guttaque subapicali nigris.

Female. Whitish. Vertex with three black lines, and with black borders. Scutum with a black middle line, with a double black line on each side, and with black borders. Scutellum and abdomen orange-red. Fore wings semihyaline, with two orange-red stripes and with two stripes of black punctures; a much outward bent black transverse line beyond the middle; a more exterior curved partly double black transverse line; a short black curved line, which extends from the costa and is dilated at the tip, and a black subapical dot. Hind wings hyaline; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 4 lines.

Hab. Mysol.

GENUS NISITRA.

Fœm. *Corpus* gracile. *Caput* lanceolatum, thorace multo longius; vertex subcarinatus. *Thorax* brevis. *Pedes* graciles; tibiæ posticæ spinosæ. *Alæ* angustæ, apice rotundatæ. *Alæ* anticæ linea submarginali e venis transversis.

Female. Body slender. Head lanceolate, much longer than the whole thorax; vertex with a slight keel; front nearly horizontal, beneath the vertex. Thorax short. Legs slender; hind legs long, with spinous tibiæ. Wings narrow, rounded at the tips. Fore wings with an irregular submarginal line of transverse veins.

439. NISITRA TELIFERA. *Fœm.* Fulva, subtus picea, capite vittis duabus latis piceis, pedibus pallide flavis, pedibus posticis nigricantibus, alis anticis piceis flavescente conspersis fascia submarginali arcuata lurido-hyalina, alis posticis cinereo-hyalinis.

Female. Tawny. Head with two broad piceous stripes, wholly piceous beneath. Pectus and abdomen piceous. Legs pale yellow. Hind legs blackish, with pale yellow knees. Fore wings piceous, with pale yellowish speckles; a curved lurid hyaline submarginal band. Hind wings cinereous, hyaline. Length of the body 3 lines, of the wings 5 lines.

Hab. Mysol.

Section 2.

Fœm. *Corpus* sat gracile. *Caput* lanceolatum, subcarinatum. *Thorax* dense punctatus. *Pedes* longi, graciles. *Alæ* anticæ linea subapicali e venis transversis.

Female. Body rather slender. Head lanceolato, very much longer than broad, slightly keeled above. Thorax thickly punctured. Legs long, slender. Fore wings with a subapical line of transverse veins.

440. NISITRA VARIPES. *Fœm.* Nigra, vertice vitta tenui testacea, pedibus anterioribus pallide flavis, alis anticis punctis nonnullis pallide flavescens fascia subapicali cinerea, alis posticis nigricantibus.

Female. Black. Vertex with a slender testaceous stripe. Anterior legs pale yellow; hind legs with pale yellow knees. Fore wings with several pale yellowish points, and with a cinereous subapical band; veins pale yellowish towards the tip. Hind wings blackish; veins black. Length of the body $2\frac{1}{2}$ lines, of the wings 4 lines.

Hab. Mysol.

Genus INTEROCREA.

Mas. *Corpus* robustum. *Caput* conicum; vertex longitudine multo latior; frons et facies planæ. *Alæ* anticæ coriaccæ, costa valde rotundata.

Male. Body stout. Head conical, as broad as the thorax; vertex very much broader than long; front and face flat. Fore wings small; costa much curved.

The much rounded costa of the fore wings distinguishes this genus from *Selenocephalus*, to which it is most allied.

441. INTEROCREA NIGRIPES. *Mas.* Testacea, robusta, fusco conspersa, capite conico, vertice brevi, fronte picea flavo pallido marginata, pectore vittis duabus piceis, pedibus piceis, alis anticis nigricante conspersis fascia nigricante lata informi, alis posticis cinereis.

Male. Testaceous, stout. Head, thorax, and fore wings speckled with brown. Head conical, as broad as the thorax; vertex very much broader than long; front and face flat, piceous, the former bordered with pale yellow on each side. Pectus with two piceous stripes. Legs piceous. Fore wings with blackish speckles; a broad irregular blackish band extending from the base to full two-thirds of the length. Hind wings cinereous, hyaline; veins black. Length of the body 2 lines, of the wings 4 lines.

Hab. New Guinea.

Order PHYTOPHTHIRE, *Burm.*

Fam. PSYLLIDÆ, *Latr.*

Gen. CARSIDARA.

Mas. Corpus sat robustum. *Caput* thorace angustius, supra excavatum. *Antennæ* gracillimæ, corpore breviores; articuli 1^{us} et 2^{us} incrassati. *Pedes* breves, robusti. *Alæ* anticæ corpore multo longiores, vena longitudinali ramos quatuor emittente apicem versus arcuata, ramis 1°, 2°, 3°que furcatis. *Alæ* posticæ venis duabus longitudinalibus gracillimis.

Male. Body moderately stout. Head narrower than the thorax, depressed above. *Antennæ* very slender, shorter than the body; first and second joints incrassated; third, fourth and fifth successively shorter; sixth and seventh as long as the fifth; eighth longer than the seventh. Legs short, stout. Fore wings much longer than the body, with a vein which emits four branches and is curved at three-fourths of the length to the hind border near the tip; first branch emerging near the base, forked, its fore fork short, joining the stigma, its hind fork long, joining the costa beyond the stigma; second branch emerging very near the base, joining the hind border at much before the middle; third emerging beyond the first, joining the hind border close to the second, emitting near its tip a short curved fork to the hind border; fourth straight, emerging opposite the stigma, proceeding obliquely to the hind border. Hind wings with two very slender longitudinal veins.

442. CARSIDARA MARGINALIS. *Mas.* Testacea, capite lituris duabus lateralibus ferrugineis, antennis albidis articulis 1° et 2° ferrugineis, 3° et sequentibus apice nigris, prothorace guttis duabus lateralibus ferrugineis, mesothorace ferrugineo vittis quinque (quatuor interruptis)

pallide flavis, abdomine pedibusque fulvis, tibiis pallide flavis, alis diaphanis testaceo venosis, alis anticis quatuor punctis fuscis stigmatibus albidis basi apiceque nigro.

Male. Testaceous. Head with a ferruginous mark on each side between the eyes. Antennæ whitish; first and second joints ferruginous; all the following joints black towards the tips. Prothorax with a ferruginous dot on each side. Mesothorax ferruginous, with five pale yellow stripes, of which the middle one only is entire. Abdomen tawny, pale yellow beneath. Legs tawny; tibiæ pale yellow. Wings pellucid; veins testaceous. Fore wings with a whitish stigma, which is blackish at each end; four brown dots along the hind border. Length of the body $1\frac{3}{4}$ line, of the wings 5 lines.

Hab. Celebes.

Genus TYORA.

Mas. Corpus gracile. Antennæ graciles, filiformes, thorace multo longiores; articuli 1^{us} et 2^{us} incrassati. Pedes robusti, breviusculi. Alæ anticæ angustæ, venis tribus longitudinalibus basi connexis, 1^a vittas duas ad costam emittente, 2^a vittas tres ad marginem posticum emittente.

Male. Body slender. Antennæ slender, filiform, much longer than the thorax; first and second joints incrassated. Legs stout rather short. Fore wings narrow, with three longitudinal veins which are connected near the base; first vein emitting an oblique vein and an exterior short directly transverse vein to the costa; second vein emitting three oblique veins to the hind border (of these secondary veins the first and second are connected by a transverse vein, third vein extending obliquely to the hind border).

443. TYORA CONGRUA. *Mas.* Fulva, capite subtus pallide flavescente, thorace flavescente sexvittato, alis hyalinis subcinereis fulvo venosis.

Male. Tawny. Head pale yellowish beneath. Thorax with six pale yellowish stripes, the two exterior stripes broader than the others. Wings hyaline, slightly cinereous; veins tawny. Length of the body $1\frac{3}{4}$ line, of the wings 4 lines.

Hab. Mysol.

Fam. COCCIDÆ, Latr.

Gen. MONOPHLEBUS, Leach.

444. MONOPHLEBUS ATRIPENNIS, *Burm. Handb.* ii. 80.

Hab. Batchian; Celebes; Gilolo. Inhabits also Hindostan.